CMS Publications

* 1309 $−$ “Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-23-001/index.html), Submitted to PLB.
* 1308 $−$ “Search for new resonances decaying to pairs of merged diphotons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-022/index.html), Submitted to PRL, [arXiv:2405.00834](https://arxiv.org/abs/2405.00834) (2024-05-01).
* 1307 $−$ “Search for the Z boson decay to $ττμμ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-016/index.html), Submitted to PRL, [arXiv:2404.18298](https://arxiv.org/abs/2404.18298) (2024-04-29).
* 1306 $−$ “Performance of CMS muon reconstruction from proton-proton to heavy ion collisions"
[CMS-MUO-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-21-001/index.html), Submitted to JINST, [arXiv:2404.17377](https://arxiv.org/abs/2404.17377) (2024-04-26).
* 1305 $−$ “Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-005/index.html), Submitted to EPJC, [arXiv:2404.16082](https://arxiv.org/abs/2404.16082) (2024-04-24).
* 1304 $−$ “Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-006/index.html), Submitted to JHEP, [arXiv:2404.08462](https://arxiv.org/abs/2404.08462) (2024-04-12).
* 1303 $−$ “The CMS statistical analysis and combination tool: Combine"
[CMS-CAT-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CAT-23-001/index.html), Submitted to CSBS, [arXiv:2404.06614](https://arxiv.org/abs/2404.06614) (2024-04-10).
* 1302 $−$ “Searches for pair-produced multijet resonances using data scouting in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-004/index.html), Submitted to PRL, [arXiv:2404.02992](https://arxiv.org/abs/2404.02992) (2024-04-03).
* 1301 $−$ “Measurement of differential ZZ$+$jets production cross sections in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-001/index.html), Submitted to JHEP, [arXiv:2404.02711](https://arxiv.org/abs/2404.02711) (2024-04-03).
* 1300 $−$ “Search for ZZ and ZH production in the $b‾b‾$ final state using proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-011/index.html), Submitted to EPJC, [arXiv:2403.20241](https://arxiv.org/abs/2403.20241) (2024-03-29).
* 1299 $−$ “Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of $τ$ leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-017/index.html), Submitted to PLB, [arXiv:2403.20201](https://arxiv.org/abs/2403.20201) (2024-03-29).
* 1298 $−$ “Enriching the physics program of the CMS experiment via data scouting and data parking"
[CMS-EXO-23-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-007/index.html), To be submitted, [arXiv:2403.16134](https://arxiv.org/abs/2403.16134) (2024-03-24).
* 1297 $−$ “Searches for Higgs boson production through decays of heavy resonances"
[CMS-B2G-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-23-002/index.html), To be submitted, [arXiv:2403.16926](https://arxiv.org/abs/2403.16926) (2024-03-24).
* 1296 $−$ “Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EGM-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-18-002/index.html), Submitted to JINST, [arXiv:2403.15518](https://arxiv.org/abs/2403.15518) (2024-03-23).
* 1295 $−$ “Observation of the $J/ψ\rightarrow μ^{+}μ^{−}μ^{+}μ^{−}$ decay in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-006/index.html), Accepted by PRD, [arXiv:2403.11352](https://arxiv.org/abs/2403.11352) (2024-03-17).
* 1294 $−$ “Search for the decay of the Higgs boson to a pair of light pseudoscalar bosons in the final state with four bottom quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-026/index.html), Submitted to JHEP, [arXiv:2403.10341](https://arxiv.org/abs/2403.10341) (2024-03-15).
* 1293 $−$ “Search for Higgs boson pair production in the $b\overline{b}W^{+}W^{−}$ decay mode in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-005/index.html), Submitted to JHEP, [arXiv:2403.09430](https://arxiv.org/abs/2403.09430) (2024-03-14).
* 1292 $−$ “Search for soft unclustered energy patterns in proton-proton collisions at 13 TeV"
[CMS-EXO-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-002/index.html), Submitted to PRL, [arXiv:2403.05311](https://arxiv.org/abs/2403.05311) (2024-03-08).
* 1291 $−$ “Search for long-lived heavy neutrinos in the decays of B mesons produced in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-019/index.html), Submitted to JHEP, [arXiv:2403.04584](https://arxiv.org/abs/2403.04584) (2024-03-07).
* 1290 $−$ “Search for new physics with emerging jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-015/index.html), Submitted to JHEP, [arXiv:2403.01556](https://arxiv.org/abs/2403.01556) (2024-03-03).
* 1289 $−$ “Review of top quark mass measurements in CMS"
[CMS-TOP-23-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-23-003/index.html), To be submitted, [arXiv:2403.01313](https://arxiv.org/abs/2403.01313) (2024-03-03).
* 1288 $−$ “Constraints on anomalous Higgs boson couplings from its production and decay using the WW channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-008/index.html), Submitted to EPJC, [arXiv:2403.00657](https://arxiv.org/abs/2403.00657) (2024-03-01).
* 1287 $−$ “Search for heavy neutral leptons in final states with electrons, muons, and hadronically decaying tau leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-011/index.html), Submitted to JHEP, [arXiv:2403.00100](https://arxiv.org/abs/2403.00100) (2024-02-29).
* 1286 $−$ “Search for baryon number violation in top quark production and decay using proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-003/index.html), Submitted to PRL, [arXiv:2402.18461](https://arxiv.org/abs/2402.18461) (2024-01-29).
* 1285 $−$ “Search for long-lived heavy neutral leptons decaying in the CMS muon detectors in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-017/index.html), Submitted to PRD, [arXiv:2402.18658](https://arxiv.org/abs/2402.18658) (2024-02-28).
* 1284 $−$ “Observation of the $Ξ\_{b}^{−}\rightarrow ψ\left(2S\right)Ξ^{−}$ decay and studies of the $Ξ\_{b}^{\*0}$ baryon in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-23-002/index.html), Submitted to PRD, [arXiv:2402.17738](https://arxiv.org/abs/2402.17738) (2024-02-27).
* 1283 $−$ “Search for long-lived particles using displaced vertices and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-020/index.html), Submitted to PRD, [arXiv:2402.15804](https://arxiv.org/abs/2402.15804) (2024-02-24).
* 1282 $−$ “Portable acceleration of CMS computing workflows with coprocessors as a service"
[CMS-MLG-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MLG-23-001/index.html), Submitted to CSBS, [arXiv:2402.15366](https://arxiv.org/abs/2402.15366) (2024-02-23).
* 1281 $−$ “Search for long-lived particles decaying to final states with a pair of muons in proton-proton collisions at $\sqrt{s}=$ 13.6 TeV"
[CMS-EXO-23-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-014/index.html), Accepted by JHEP, [arXiv:2402.14491](https://arxiv.org/abs/2402.14491) (2024-02-22).
* 1280 $−$ “Measurement of energy correlators inside jets and determination of the strong coupling $α\_{S}\left(m\_{Z}\right)$"
[CMS-SMP-22-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-015/index.html), Submitted to PRL, [arXiv:2402.13864](https://arxiv.org/abs/2402.13864) (2024-02-21).
* 1279 $−$ “A search for bottom-type vector-like quark pair production in dileptonic and fully hadronic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-014/index.html), Submitted to PRD, [arXiv:2402.13808](https://arxiv.org/abs/2402.13808) (2024-02-21).
* 1278 $−$ “Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $μμbb$ and $ττbb$ final states"
[CMS-HIG-22-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-007/index.html), Submitted to EPJC, [arXiv:2402.13358](https://arxiv.org/abs/2402.13358) (2024-02-21).
* 1277 $−$ “Search for a scalar or pseudoscalar dilepton resonance produced in association with a massive vector boson or top quark-antiquark pair in multilepton events at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-018/index.html), Submitted to PRD, [arXiv:2402.11098](https://arxiv.org/abs/2402.11098) (2024-02-16).
* 1276 $−$ “Search for fractionally charged particles in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-006/index.html), Submitted to PRL, [arXiv:2402.09932](https://arxiv.org/abs/2402.09932) (2024-02-15).
* 1275 $−$ “Differential cross section measurements for the production of top quark pairs and of additional jets using dilepton events from pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-006/index.html), Submitted to JHEP, [arXiv:2402.08486](https://arxiv.org/abs/2402.08486) (2024-02-13).
* 1274 $−$ “Search for pair production of scalar and vector leptoquarks decaying to muons and bottom quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-019/index.html), Accepted by PRD, [arXiv:2402.08668](https://arxiv.org/abs/2402.08668) (2024-02-09).
* 1273 $−$ “Search for long-lived particles decaying in the CMS muon detectors in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-008/index.html), Accepted by PRD, [arXiv:2402.01898](https://arxiv.org/abs/2402.01898) (2024-02-03).
* 1272 $−$ “Combined search for electroweak production of winos, binos, higgsinos, and sleptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-008/index.html), Accepted by PRD, [arXiv:2402.01888](https://arxiv.org/abs/2402.01888) (2024-02-03).
* 1271 $−$ “Observation of the $Λ\_{b}^{0}\rightarrow J/ψ Ξ^{−}K^{+}$ decay"
[CMS-BPH-22-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-002/index.html), Submitted to EPJC, [arXiv:2401.16303](https://arxiv.org/abs/2401.16303) (2024-01-29).
* 1270 $−$ “Nonresonant central exclusive production of charged-hadron pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-004/index.html), Accepted by PRD, [arXiv:2401.14494](https://arxiv.org/abs/2401.14494) (2024-01-25).
* 1269 $−$ “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s}=$ 5.02 TeV"
[CMS-SMP-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-009/index.html), Submitted to JHEP, [arXiv:2401.11355](https://arxiv.org/abs/2401.11355) (2024-01-21).
* 1268 $−$ “Extracting the speed of sound in the strongly interacting matter created in ultrarelativistic lead-lead collisions at the LHC"
[CMS-HIN-23-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-23-003/index.html), Submitted to ROPP, [arXiv:2401.06896](https://arxiv.org/abs/2401.06896) (2024-01-12).
* 1267 $−$ “Test of lepton flavor universality in $B^{\pm }​\rightarrow ​K^{\pm }μ^{+}μ^{−}$ and $B^{\pm }​\rightarrow ​K^{\pm }e^{+}e^{−}$ decays in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-005/index.html), Submitted to ROPP, [arXiv:2401.07090](https://arxiv.org/abs/2401.07090) (2024-01-12).
* 1266 $−$ “Elliptic anisotropy measurement of the f$​\_{0}$(980) hadron in proton-lead collisions and evidence for its quark-antiquark composition"
[CMS-HIN-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-002/index.html), Submitted to NP, [arXiv:2312.17092](https://arxiv.org/abs/2312.17092) (2023-12-28).
* 1265 $−$ “Observation of enhanced long-range elliptic anisotropies inside high-multiplicity jets in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIN-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-013/index.html), Submitted to PRL, [arXiv:2312.17103](https://arxiv.org/abs/2312.17103) (2023-12-28).
* 1264 $−$ “Measurement of multidifferential cross sections for dijet production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-008/index.html), Submitted to EPJC, [arXiv:2312.16669](https://arxiv.org/abs/2312.16669) (2023-12-28).
* 1263 $−$ “Measurement of the primary Lund jet plane density in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-007/index.html), Accepted by JHEP, [arXiv:2312.16343](https://arxiv.org/abs/2312.16343) (2023-12-27).
* 1262 $−$ “Evidence for tWZ production in proton-proton collisions at $\sqrt{s}=$ 13 TeV in multilepton final states"
[CMS-TOP-22-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-008/index.html), Submitted to PLB, [arXiv:2312.11668](https://arxiv.org/abs/2312.11668) (2023-12-19).
* 1261 $−$ “Search for long-lived heavy neutral leptons with lepton flavour conserving or violating decays to a jet and a charged lepton"
[CMS-EXO-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-013/index.html), [JHEP 03 (2024) 105](https://doi.org/10.1007/JHEP03%282024%29105) (2024-03-19), [arXiv:2312.07484](https://arxiv.org/abs/2312.07484) (2023-12-12).
* 1260 $−$ “Search for flavor changing neutral current interactions of the top quark in final states with a photon and additional jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-013/index.html), [PRD 109 (2024) 072004](https://doi.org/10.1103/PhysRevD.109.072004) (2024-04-06), [arXiv:2312.08229](https://arxiv.org/abs/2312.08229) (2023-12-11).
* 1259 $−$ “Measurement of simplified template cross sections of the Higgs boson produced in association with W or Z bosons in the H $\rightarrow b\overline{b}$ decay channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-001/index.html), Accepted by PRD, [arXiv:2312.07562](https://arxiv.org/abs/2312.07562) (2023-12-10).
* 1258 $−$ “Search for charged-lepton flavor violation in the production and decay of top quarks using trilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-005/index.html), Submitted to PRD, [arXiv:2312.03199](https://arxiv.org/abs/2312.03199) (2023-12-05).
* 1257 $−$ “Search for the lepton flavor violating $τ​\rightarrow ​3μ$ decay in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-005/index.html), [PLB 853 (2024) 138633](https://doi.org/10.1016/j.physletb.2024.138633) (2024-04-17), [arXiv:2312.02371](https://arxiv.org/abs/2312.02371) (2023-12-04).
* 1256 $−$ “Higher-order moments of the elliptic flow distribution in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-010/index.html), [JHEP 02 (2024) 106](https://doi.org/10.1007/JHEP02%282024%29106) (2024-02-15), [arXiv:2311.11370](https://arxiv.org/abs/2311.11370) (2023-11-19).
* 1255 $−$ “Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-22-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-010/index.html), [PLB 850 (2024) 138478](https://doi.org/10.1016/j.physletb.2024.138478) (2024-02-10), [arXiv:2311.03261](https://arxiv.org/abs/2311.03261) (2023-11-06).
* 1254 $−$ “Search for high-mass exclusive diphoton production with tagged protons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-007/index.html), Accepted by PRD, [arXiv:2311.02725](https://arxiv.org/abs/2311.02725) (2023-11-05).
* 1253 $−$ “Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-003/index.html), [PLB 852 (2024) 138582](https://doi.org/10.1016/j.physletb.2024.138582) (2024-03-18), [arXiv:2311.00130](https://arxiv.org/abs/2311.00130) (2023-10-31).
* 1252 $−$ “Search for W’ bosons decaying to a top and a bottom quark in leptonic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-012/index.html), Accepted by JHEP, [arXiv:2310.19893](https://arxiv.org/abs/2310.19893) (2023-10-30).
* 1251 $−$ “Search for narrow trijet resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-008/index.html), Submitted to PRL, [arXiv:2310.14023](https://arxiv.org/abs/2310.14023) (2023-10-21).
* 1250 $−$ “Search for dark matter particles in W$​^{+}$W$​^{−}$ events with transverse momentum imbalance in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-012/index.html), [JHEP 03 (2024) 134](https://doi.org/10.1007/JHEP03%282024%29134) (2024-03-21), [arXiv:2310.12229](https://arxiv.org/abs/2310.12229) (2023-10-18).
* 1249 $−$ “Search for central exclusive production of top quark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV with tagged protons"
[CMS-TOP-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-007/index.html), Submitted to JHEP, [arXiv:2310.11231](https://arxiv.org/abs/2310.11231) (2023-10-11).
* 1248 $−$ “Observation of WW$γ$ production and search for H$γ$ production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-006/index.html), [PRL 132 (2024) 121901](https://doi.org/10.1103/PhysRevLett.132.121901) (2024-03-19), [arXiv:2310.05164](https://arxiv.org/abs/2310.05164) (2023-10-08).
* 1247 $−$ “Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-MUO-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-22-001/index.html), [JINST 19 (2024) P02031](https://doi.org/10.1088/1748-0221/19/02/P02031) (2024-02-23), [arXiv:2310.03844](https://arxiv.org/abs/2310.03844) (2023-10-05).
* 1246 $−$ “Study of azimuthal anisotropy of $Υ$(1S) mesons in pPb collisions at $\sqrt{s\_{​\_{NN}}}$ = 8.16 TeV"
[CMS-HIN-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-001/index.html), [PLB 850 (2024) 138518](https://doi.org/10.1016/j.physletb.2024.138518) (2024-02-09), [arXiv:2310.03233](https://arxiv.org/abs/2310.03233) (2023-10-05).
* 1245 $−$ “Search for stealth supersymmetry in final states with two photons, jets, and low missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-001/index.html), Accepted by PRD, [arXiv:2310.03154](https://arxiv.org/abs/2310.03154) (2023-10-05).
* 1244 $−$ “Search for a new resonance decaying into two spin-0 bosons in a final state with two photons and two bottom quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-011/index.html), Accepted by JHEP, [arXiv:2310.01643](https://arxiv.org/abs/2310.01643) (2023-10-02).
* 1243 $−$ “Search for supersymmetry in final states with disappearing tracks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-006/index.html), [PRD 109 (2024) 072007](https://doi.org/10.1103/PhysRevD.109.072007) (2024-04-17), [arXiv:2309.16823](https://arxiv.org/abs/2309.16823) (2023-09-28).
* 1242 $−$ “Search for direct production of GeV-scale resonances decaying to a pair of muons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-005/index.html), [JHEP 12 (2023) 070](https://doi.org/10.1007/JHEP12%282023%29070) (2023-12-12), [arXiv:2309.16003](https://arxiv.org/abs/2309.16003) (2023-09-28).
* 1241 $−$ “Combination of measurements of the top quark mass from data collected by the ATLAS and CMS experiments at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-001/index.html), Accepted by PRL, [arXiv:2402.08713](https://arxiv.org/abs/2402.08713) (2024-02-13).
* 1240 $−$ “Inclusive and differential cross section measurements of $t‾b‾$ production in the lepton+jets channel at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-22-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-009/index.html), Accepted by JHEP, [arXiv:2309.14442](https://arxiv.org/abs/2309.14442) (2023-09-25).
* 1239 $−$ “Measurement of the $τ$ lepton polarization in Z boson decays in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-010/index.html), [JHEP 01 (2024) 101](https://doi.org/10.1007/JHEP01%282024%29101) (2024-01-19), [arXiv:2309.12408](https://arxiv.org/abs/2309.12408) (2023-09-21).
* 1238 $−$ “Development of the CMS detector for the CERN LHC Run 3"
[CMS-PRF-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-21-001/index.html), Accepted by JINST, [arXiv:2309.05466](https://arxiv.org/abs/2309.05466) (2023-09-08).
* 1237 $−$ “Evidence for the Higgs boson decay to a Z boson and a photon at the LHC"
[CMS-HIG-23-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-23-002/index.html), [PRL 132 (2024) 021803](https://doi.org/10.1103/PhysRevLett.132.021803) (2024-01-11), [arXiv:2309.03501](https://arxiv.org/abs/2309.03501) (2023-09-07).
* 1236 $−$ “Luminosity determination using Z boson production at the CMS experiment"
[CMS-LUM-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/LUM-21-001/index.html), [EPJC 84 (2024) 26](https://doi.org/10.1140/epjc/s10052-023-12268-2) (2024-01-10), [arXiv:2309.01008](https://arxiv.org/abs/2309.01008) (2023-09-02).
* 1235 $−$ “Search for a third-generation leptoquark coupled to a $τ$ lepton and a b quark through single, pair, and nonresonant production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-016/index.html), Accepted by JHEP, [arXiv:2308.07826](https://arxiv.org/abs/2308.07826) (2023-08-15).
* 1234 $−$ “Search for scalar leptoquarks produced via $τ$-lepton-quark scattering in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-018/index.html), [PRL 132 (2024) 061801](https://doi.org/10.1103/PhysRevLett.132.061801) (2024-02-08), [arXiv:2308.06143](https://arxiv.org/abs/2308.06143) (2023-08-12).
* 1233 $−$ “Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-005/index.html), [EPJC 84 (2024) 27](https://doi.org/10.1140/epjc/s10052-023-12258-4) (2024-01-10), [arXiv:2308.02285](https://arxiv.org/abs/2308.02285) (2023-08-04).
* 1232 $−$ “Measurement of the Higgs boson production via vector boson fusion and its decay into bottom quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-009/index.html), [JHEP 01 (2024) 173](https://doi.org/10.1007/JHEP01%282024%29173) (2024-01-30), [arXiv:2308.01253](https://arxiv.org/abs/2308.01253) (2023-08-02).
* 1231 $−$ “Search for physics beyond the standard model in top quark production with additional leptons in the context of effective field theory"
[CMS-TOP-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-006/index.html), [JHEP 12 (2023) 068](https://doi.org/10.1007/JHEP12%282023%29068) (2023-12-12), [arXiv:2307.15761](https://arxiv.org/abs/2307.15761) (2023-07-28).
* 1230 $−$ “Search for new physics in multijet events with at least one photon and large missing transverse momentum in proton-proton collisions at 13 TeV"
[CMS-SUS-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-009/index.html), [JHEP 10 (2023) 046](https://doi.org/10.1007/JHEP10%282023%29046) (2023-10-06), [arXiv:2307.16216](https://arxiv.org/abs/2307.16216) (2023-07-28).
* 1229 $−$ “Study of charm hadronization with prompt $Λ\_{c}^{+}$ baryons in proton-proton and lead-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-004/index.html), [JHEP 01 (2024) 128](https://doi.org/10.1007/JHEP01%282024%29128) (2024-01-23), [arXiv:2307.11186](https://arxiv.org/abs/2307.11186) (2023-07-20).
* 1228 $−$ “Multiplicity and transverse momentum dependence of charge-balance functions in pPb and PbPb collisions at LHC energies"
[CMS-HIN-21-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-017/index.html), Submitted to JHEP, [arXiv:2307.11185](https://arxiv.org/abs/2307.11185) (2023-07-20).
* 1227 $−$ “Search for a high-mass dimuon resonance produced in association with b quark jets at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-016/index.html), [JHEP 10 (2023) 043](https://doi.org/10.1007/JHEP10%282023%29043) (2023-10-06), [arXiv:2307.08708](https://arxiv.org/abs/2307.08708) (2023-07-14).
* 1226 $−$ “Search for Z’ bosons decaying to pairs of heavy Majorana neutrinos in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-006/index.html), [JHEP 11 (2023) 181](https://doi.org/10.1007/JHEP11%282023%29181) (2023-11-24), [arXiv:2307.06959](https://arxiv.org/abs/2307.06959) (2023-07-13).
* 1225 $−$ “Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-011/index.html), [PRC 109 (2024) 024914](https://doi.org/10.1103/PhysRevC.109.024914) (2024-02-23), [arXiv:2306.11574](https://arxiv.org/abs/2306.11574) (2023-06-20).
* 1224 $−$ “Performance of the local reconstruction algorithms for the CMS hadron calorimeter with Run 2 data"
[CMS-PRF-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-22-001/index.html), [JINST 18 (2023) P11017](https://doi.org/10.1088/1748-0221/18/11/P11017) (2023-11-22), [arXiv:2306.10355](https://arxiv.org/abs/2306.10355) (2023-06-17).
* 1223 $−$ “Observation of new structure in the J/$ψ$J/$ψ$ mass spectrum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-003/index.html), [PRL 132 (2024) 111901](https://doi.org/10.1103/PhysRevLett.132.111901) (2024-03-15), [arXiv:2306.07164](https://arxiv.org/abs/2306.07164) (2023-06-12).
* 1222 $−$ “Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the e$μ$ final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-002/index.html), [PRD 108 (2023) 072004](https://doi.org/10.1103/PhysRevD.108.072004) (2023-10-10), [arXiv:2305.18106](https://arxiv.org/abs/2305.18106) (2023-05-29).
* 1221 $−$ “Measurements of the azimuthal anisotropy of prompt and nonprompt charmonia in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-008/index.html), [JHEP 10 (2023) 115](https://doi.org/10.1007/JHEP10%282023%29115) (2023-10-19), [arXiv:2305.16928](https://arxiv.org/abs/2305.16928) (2023-05-25).
* 1220 $−$ “Observation of four top quark production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-22-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-013/index.html), [PLB 847 (2023) 138290](https://doi.org/10.1016/j.physletb.2023.138290) (2023-10-31), [arXiv:2305.13439](https://arxiv.org/abs/2305.13439) (2023-05-22).
* 1219 $−$ “Search for inelastic dark matter in events with two displaced muons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-010/index.html), [PRL 132 (2024) 041802](https://doi.org/10.1103/PhysRevLett.132.041802) (2024-01-23), [arXiv:2305.11649](https://arxiv.org/abs/2305.11649) (2023-05-19).
* 1218 $−$ “Search for resonances in events with photon and jet final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-012/index.html), [JHEP 12 (2023) 189](https://doi.org/10.1007/JHEP12%282023%29189) (2023-12-28), [arXiv:2305.07998](https://arxiv.org/abs/2305.07998) (2023-05-14).
* 1217 $−$ “Measurements of inclusive and differential cross sections for the Higgs boson production and decay to four-leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-009/index.html), [JHEP 08 (2023) 040](https://doi.org/10.1007/JHEP08%282023%29040) (2023-08-09), [arXiv:2305.07532](https://arxiv.org/abs/2305.07532) (2023-05-12).
* 1216 $−$ “Observation of the rare decay of the $η$ meson to four muons"
[CMS-BPH-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-22-003/index.html), [PRL 131 (2023) 091903](https://doi.org/10.1103/PhysRevLett.131.091903) (2023-09-01), [arXiv:2305.04904](https://arxiv.org/abs/2305.04904) (2023-05-08).
* 1215 $−$ “Search for top squark pair production in a final state with at least one hadronically decaying tau lepton in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-004/index.html), [JHEP 07 (2023) 110](https://doi.org/10.1007/JHEP07%282023%29110) (2023-07-13), [arXiv:2304.07174](https://arxiv.org/abs/2304.07174) (2023-04-14).
* 1214 $−$ “Observation of the $Υ$(3S) meson and suppression of $Υ$ states in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-007/index.html), Submitted to PRL, [arXiv:2303.17026](https://arxiv.org/abs/2303.17026) (2023-03-29).
* 1213 $−$ “Probing small Bjorken-$x$ nuclear gluonic structure via coherent J/$ψ$ photoproduction in ultraperipheral Pb-Pb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-22-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-22-002/index.html), [PRL 131 (2023) 262301](https://doi.org/10.1103/PhysRevLett.131.262301) (2023-12-28), [arXiv:2303.16984](https://arxiv.org/abs/2303.16984) (2023-03-29).
* 1212 $−$ “First measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s}=$ 13.6 TeV"
[CMS-TOP-22-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-22-012/index.html), [JHEP 08 (2023) 204](https://doi.org/10.1007/JHEP08%282023%29204) (2023-08-30), [arXiv:2303.10680](https://arxiv.org/abs/2303.10680) (2023-03-19).
* 1211 $−$ “A search for new physics in central exclusive production using the missing mass technique with the CMS detector and the CMS-TOTEM precision proton spectrometer"
[CMS-EXO-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-009/index.html), [EPJC 83 (2023) 827](https://doi.org/10.1140/epjc/s10052-023-11687-5) (2023-09-20), [arXiv:2303.04596](https://arxiv.org/abs/2303.04596) (2023-03-08).
* 1210 $−$ “Evidence for four-top quark production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-005/index.html), [PLB 844 (2023) 138076](https://doi.org/10.1016/j.physletb.2023.138076) (2023-09-10), [arXiv:2303.03864](https://arxiv.org/abs/2303.03864) (2023-03-07).
* 1209 $−$ “A search for decays of the Higgs boson to invisible particles in events with a top-antitop quark pair or a vector boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-007/index.html), [EPJC 83 (2023) 933](https://doi.org/10.1140/epjc/s10052-023-11952-7) (2023-10-16), [arXiv:2303.01214](https://arxiv.org/abs/2303.01214) (2023-03-02).
* 1208 $−$ “Search for a vector-like quark T’ $\rightarrow $ tH via the diphoton decay mode of the Higgs boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-007/index.html), [JHEP 09 (2023) 057](https://doi.org/10.1007/JHEP09%282023%29057) (2023-09-11), [arXiv:2302.12802](https://arxiv.org/abs/2302.12802) (2023-02-24).
* 1207 $−$ “Measurement of the top quark mass using a profile likelihood approach with the lepton+jets final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-008/index.html), [EPJC 83 (2023) 963](https://doi.org/10.1140/epjc/s10052-023-12050-4) (2023-10-25), [arXiv:2302.01967](https://arxiv.org/abs/2302.01967) (2023-02-03).
* 1206 $−$ “Search for top squarks in the four-body decay mode with single lepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-003/index.html), [JHEP 06 (2023) 060](https://doi.org/10.1007/JHEP06%282023%29060) (2023-06-12), [arXiv:2301.08096](https://arxiv.org/abs/2301.08096) (2023-01-19).
* 1205 $−$ “First measurement of the forward rapidity gap distribution in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-18-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-019/index.html), [PRD 108 (2023) 092004](https://doi.org/10.1103/PhysRevD.108.092004) (2023-11-20), [arXiv:2301.07630](https://arxiv.org/abs/2301.07630) (2023-01-18).
* 1204 $−$ “$K\_{S}^{0}$ and $Λ$ ($\overline{Λ}$) two-particle femtoscopic correlations in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-006/index.html), Submitted to PLB, [arXiv:2301.05290](https://arxiv.org/abs/2301.05290) (2023-01-13).
* 1203 $−$ “Search for new physics in the $τ$ lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-009/index.html), [JHEP 09 (2023) 051](https://doi.org/10.1007/JHEP09%282023%29051) (2022-07-11), [arXiv:2212.12604](https://arxiv.org/abs/2212.12604) (2022-12-23).
* 1202 $−$ “Measurement of the electroweak production of W$γ$ in association with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-011/index.html), [PRD 108 (2023) 032017](https://doi.org/10.1103/PhysRevD.108.032017) (2023-08-01), [arXiv:2212.12592](https://arxiv.org/abs/2212.12592) (2022-12-23).
* 1201 $−$ “Measurement of the $B\_{s}^{0}\rightarrow μ^{+}μ^{−}$ decay properties and search for the $B^{0}\rightarrow μ^{+}μ^{−}$ decay in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-006/index.html), [PLB 842 (2023) 137955](https://doi.org/10.1016/j.physletb.2023.137955) (2023-05-12), [arXiv:2212.10311](https://arxiv.org/abs/2212.10311) (2022-12-20).
* 1200 $−$ “Search for long-lived particles using out-of-time trackless jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-014/index.html), [JHEP 07 (2023) 210](https://doi.org/10.1007/JHEP07%282023%29210) (2023-07-27), [arXiv:2212.06695](https://arxiv.org/abs/2212.06695) (2022-12-13).
* 1199 $−$ “Measurement of the dependence of the hadron production fraction ratio $f\_{s}/f\_{u}$ on B meson kinematic variables in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-001/index.html), [PRL 131 (2023) 121901](https://doi.org/10.1103/PhysRevLett.131.121901) (2023-09-19), [arXiv:2212.02309](https://arxiv.org/abs/2212.02309) (2022-12-05).
* 1198 $−$ “Measurements of azimuthal anisotropy of nonprompt D$​^{0}$ mesons in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-003/index.html), [PLB 850 (2024) 138389](https://doi.org/10.1016/j.physletb.2023.138389) (2024-02-12), [arXiv:2212.01636](https://arxiv.org/abs/2212.01636) (2022-12-03).
* 1197 $−$ “Search for high-mass exclusive $γγ\rightarrow WW$ and $γγ\rightarrow ZZ$ production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-014/index.html), [JHEP 07 (2023) 229](https://doi.org/10.1007/JHEP07%282023%29229) (2023-07-31), [arXiv:2211.16320](https://arxiv.org/abs/2211.16320) (2022-11-29).
* 1196 $−$ “Search for boosted Higgs boson decay to a charm quark-antiquark pair in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-012/index.html), [PRL 131 (2023) 041801](https://doi.org/10.1103/PhysRevLett.131.041801) (2023-07-26), [arXiv:2211.14181](https://arxiv.org/abs/2211.14181) (2022-11-25).
* 1195 $−$ “Search for supersymmetry in final states with a single electron or muon using angular correlations and heavy-object identification in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-21-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-007/index.html), [JHEP 09 (2023) 149](https://doi.org/10.1007/JHEP09%282023%29149) (2023-09-22), [arXiv:2211.08476](https://arxiv.org/abs/2211.08476) (2022-11-15).
* 1194 $−$ “Measurement of the differential $t\overline{t}$ production cross section as a function of the jet mass and extraction of the top quark mass in hadronic decays of boosted top quarks"
[CMS-TOP-21-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-012/index.html), [EPJC 83 (2023) 560](https://doi.org/10.1140/epjc/s10052-023-11587-8) (2023-07-03), [arXiv:2211.01456](https://arxiv.org/abs/2211.01456) (2022-11-02).
* 1193 $−$ “Azimuthal correlations in Z+jets events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-003/index.html), [EPJC 83 (2023) 722](https://doi.org/10.1140/epjc/s10052-023-11833-z) (2023-08-11), [arXiv:2210.16139](https://arxiv.org/abs/2210.16139) (2022-10-28).
* 1192 $−$ “Measurements of jet multiplicity and jet transverse momentum in multijet events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-006/index.html), [EPJC 83 (2023) 742](https://doi.org/10.1140/epjc/s10052-023-11753-y) (2023-08-22), [arXiv:2210.13557](https://arxiv.org/abs/2210.13557) (2022-10-24).
* 1191 $−$ “Search for medium effects using jets from bottom quarks in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-003/index.html), [PLB 844 (2023) 137849](https://doi.org/10.1016/j.physletb.2023.137849) (2023-09-10), [arXiv:2210.08547](https://arxiv.org/abs/2210.08547) (2022-10-16).
* 1190 $−$ “Azimuthal anisotropy of dijet events in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-002/index.html), [JHEP 07 (2023) 139](https://doi.org/10.1007/JHEP07%282023%29139) (2023-07-17), [arXiv:2210.08325](https://arxiv.org/abs/2210.08325) (2022-10-15).
* 1189 $−$ “Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer"
[CMS-PRO-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRO-21-001/index.html), [JINST 18 (2023) P09009](https://doi.org/10.1088/1748-0221/18/09/P09009) (2023-09-06), [arXiv:2210.05854](https://arxiv.org/abs/2210.05854) (2022-10-12).
* 1188 $−$ “Search for a heavy composite Majorana neutrino in events with dilepton signatures from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-011/index.html), [PLB 843 (2023) 137803](https://doi.org/10.1016/j.physletb.2023.137803) (2023-06-14), [arXiv:2210.03082](https://arxiv.org/abs/2210.03082) (2022-10-06).
* 1187 $−$ “Search for new heavy resonances decaying to WW, WZ, ZZ, WH, or ZH boson pairs in the all-jets final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-009/index.html), [PLB 844 (2023) 137813](https://doi.org/10.1016/j.physletb.2023.137813) (2023-09-10), [arXiv:2210.00043](https://arxiv.org/abs/2210.00043) (2022-09-30).
* 1186 $−$ “Search for pair production of vector-like quarks in leptonic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-011/index.html), [JHEP 07 (2023) 020](https://doi.org/10.1007/JHEP07%282023%29020) (2023-07-03), [arXiv:2209.07327](https://arxiv.org/abs/2209.07327) (2022-09-15).
* 1185 $−$ “Search for exotic Higgs boson decays H $\rightarrow AA\rightarrow 4γ$ with events containing two merged diphotons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-016/index.html), [PRL 131 (2023) 101801](https://doi.org/10.1103/PhysRevLett.131.101801) (2023-09-05), [arXiv:2209.06197](https://arxiv.org/abs/2209.06197) (2022-09-13).
* 1184 $−$ “Search for new physics using effective field theory in 13 TeV pp collision events that contain a top quark pair and a boosted Z or Higgs boson"
[CMS-TOP-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-003/index.html), [PRD 108 (2023) 032008](https://doi.org/10.1103/PhysRevD.108.032008) (2023-08-10), [arXiv:2208.12837](https://arxiv.org/abs/2208.12837) (2022-08-26).
* 1183 $−$ “Measurement of the Higgs boson inclusive and differential fiducial production cross sections in the diphoton decay channel with pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-016/index.html), [JHEP 07 (2023) 091](https://doi.org/10.1007/JHEP07%282023%29091) (2023-07-12), [arXiv:2208.12279](https://arxiv.org/abs/2208.12279) (2022-08-25).
* 1182 $−$ “Search for pair-produced vector-like leptons in final states with third-generation leptons and at least three b quark jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-004/index.html), [PLB 846 (2023) 137713](https://doi.org/10.1016/j.physletb.2023.137713) (2023-09-13), [arXiv:2208.09700](https://arxiv.org/abs/2208.09700) (2022-08-20).
* 1181 $−$ “Measurement of the cross section of top quark-antiquark pair production in association with a W boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-011/index.html), [JHEP 07 (2023) 219](https://doi.org/10.1007/JHEP07%282023%29219) (2023-07-28), [arXiv:2208.06485](https://arxiv.org/abs/2208.06485) (2022-08-12).
* 1180 $−$ “Measurement of the $t‾$ charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-014/index.html), [PLB 846 (2023) 137703](https://doi.org/10.1016/j.physletb.2023.137703) (2023-09-15), [arXiv:2208.02751](https://arxiv.org/abs/2208.02751) (2022-08-04).
* 1179 $−$ “Searches for additional Higgs bosons and for vector leptoquarks in $ττ$ final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-001/index.html), [JHEP 07 (2023) 073](https://doi.org/10.1007/JHEP07%282023%29073) (2023-07-10), [arXiv:2208.02717](https://arxiv.org/abs/2208.02717) (2022-08-04).
* 1178 $−$ “Search for CP violation in ttH and tH production in multilepton channels in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-006/index.html), [JHEP 07 (2023) 092](https://doi.org/10.1007/JHEP07%282023%29092) (2023-07-12), [arXiv:2208.02686](https://arxiv.org/abs/2208.02686) (2022-08-04).
* 1177 $−$ “Search for the exotic decay of the Higgs boson into two light pseudoscalars with four photons in the final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-003/index.html), [JHEP 07 (2023) 148](https://doi.org/10.1007/JHEP07%282023%29148) (2023-07-19), [arXiv:2208.01469](https://arxiv.org/abs/2208.01469) (2022-08-02).
* 1176 $−$ “Measurement of inclusive and differential cross sections for single top quark production in association with a W boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-010/index.html), [JHEP 07 (2023) 046](https://doi.org/10.1007/JHEP07%282023%29046) (2023-07-06), [arXiv:2208.00924](https://arxiv.org/abs/2208.00924) (2022-08-01).
* 1175 $−$ “Search for the Higgs boson decay to a pair of electrons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-015/index.html), [PLB 846 (2023) 137783](https://doi.org/10.1016/j.physletb.2023.137783) (2023-09-17), [arXiv:2208.00265](https://arxiv.org/abs/2208.00265) (2022-07-30).
* 1174 $−$ “Measurement of the top quark pole mass using $t‾$+jet events in the dilepton final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-008/index.html), [JHEP 07 (2023) 077](https://doi.org/10.1007/JHEP07%282023%29077) (2023-07-10), [arXiv:2207.02270](https://arxiv.org/abs/2207.02270) (2022-07-05).
* 1173 $−$ “Search for direct pair production of supersymmetric partners of $τ$ leptons in the final state with two hadronically decaying $τ$ leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-001/index.html), [PRD 108 (2023) 012011](https://doi.org/10.1103/PhysRevD.108.012011) (2023-07-01), [arXiv:2207.02254](https://arxiv.org/abs/2207.02254) (2022-07-05).
* 1172 $−$ “Search for a charged Higgs boson decaying into a heavy neutral Higgs boson and a W boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-010/index.html), [JHEP 09 (2023) 032](https://doi.org/10.1007/JHEP09%282023%29032) (2023-09-06), [arXiv:2207.01046](https://arxiv.org/abs/2207.01046) (2022-07-04).
* 1171 $−$ “A portrait of the Higgs boson by the CMS experiment ten years after the discovery"
[CMS-HIG-22-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-001/index.html), [Nature 607 (2022) 60](https://doi.org/10.1038/s41586-022-04892-x) (2022-07-04), [arXiv:2207.00043](https://arxiv.org/abs/2207.00043) (2022-07-04).
* 1170 $−$ “Search for nonresonant Higgs boson pair production in the four leptons plus two b jets final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-004/index.html), [JHEP 06 (2023) 130](https://doi.org/10.1007/JHEP06%282023%29130) (2023-06-22), [arXiv:2206.10657](https://arxiv.org/abs/2206.10657) (2022-06-22).
* 1169 $−$ “Search for Higgs boson pairs decaying to WWWW, WW$ττ$, and $ττττ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-002/index.html), [JHEP 07 (2023) 095](https://doi.org/10.1007/JHEP07%282023%29095) (2023-07-12), [arXiv:2206.10268](https://arxiv.org/abs/2206.10268) (2022-06-21).
* 1168 $−$ “Search for resonant and nonresonant production of pairs of dijet resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-010/index.html), [JHEP 07 (2023) 161](https://doi.org/10.1007/JHEP07%282023%29161) (2023-07-21), [arXiv:2206.09997](https://arxiv.org/abs/2206.09997) (2022-06-21).
* 1167 $−$ “Measurements of the Higgs boson production cross section and couplings in the WW boson pair decay channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-013/index.html), [EPJC 83 (2023) 667](https://doi.org/10.1140/epjc/s10052-023-11632-6) (2023-07-26), [arXiv:2206.09466](https://arxiv.org/abs/2206.09466) (2022-06-20).
* 1166 $−$ “Search for nonresonant Higgs boson pair production in final state with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-010/index.html), [PLB 842 (2023) 137531](https://doi.org/10.1016/j.physletb.2022.137531) (2023-05-19), [arXiv:2206.09401](https://arxiv.org/abs/2206.09401) (2022-06-19).
* 1165 $−$ “Probing heavy Majorana neutrinos and the Weinberg operator through vector boson fusion processes in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-003/index.html), [PRL 131 (2023) 011803](https://doi.org/10.1103/PhysRevLett.131.011803) (2023-07-06), [arXiv:2206.08956](https://arxiv.org/abs/2206.08956) (2022-06-17).
* 1164 $−$ “Precision measurement of the Z boson invisible width in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-014/index.html), [PLB 842 (2023) 137563](https://doi.org/10.1016/j.physletb.2022.137563) (2023-05-22), [arXiv:2206.07110](https://arxiv.org/abs/2206.07110) (2022-06-14).
* 1163 $−$ “Observation of $τ$ lepton pair production in ultraperipheral lead-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-21-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-21-009/index.html), [PRL 131 (2023) 151803](https://doi.org/10.1103/PhysRevLett.131.151803) (2023-10-12), [arXiv:2206.05192](https://arxiv.org/abs/2206.05192) (2022-06-10).
* 1162 $−$ “Search for Higgs boson decays into Z and J/$ψ$ and for Higgs and Z boson decays into J/$ψ$ or $Υ$ pairs in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-008/index.html), [PLB 842 (2023) 137534](https://doi.org/10.1016/j.physletb.2022.137534) (2023-05-18), [arXiv:2206.03525](https://arxiv.org/abs/2206.03525) (2022-06-07).
* 1161 $−$ “Observation of same-sign WW production from double parton scattering in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-013/index.html), [PRL 131 (2023) 091803](https://doi.org/10.1103/PhysRevLett.131.091803) (2023-09-01), [arXiv:2206.02681](https://arxiv.org/abs/2206.02681) (2022-06-06).
* 1160 $−$ “Combination of inclusive top-quark pair production cross-section measurements using ATLAS and CMS data at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-014/index.html), [JHEP 07 (2023) 213](https://doi.org/10.1007/JHEP07%282023%29213) (2023-07-27), [arXiv:2205.13830](https://arxiv.org/abs/2205.13830) (2022-05-25).
* 1159 $−$ “Search for electroweak production of charginos and neutralinos at $\sqrt{s}=$ 13 TeV in final states containing hadronic decays of WW, WZ, or WH and missing transverse momentum"
[CMS-SUS-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-21-002/index.html), [PLB 842 (2023) 137460](https://doi.org/10.1016/j.physletb.2022.137460) (2023-05-13), [arXiv:2205.09597](https://arxiv.org/abs/2205.09597) (2022-05-19).
* 1158 $−$ “Search for long-lived particles decaying to a pair of muons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-006/index.html), [JHEP 05 (2023) 228](https://doi.org/10.1007/JHEP05%282023%29228) (2023-05-30), [arXiv:2205.08582](https://arxiv.org/abs/2205.08582) (2022-05-17).
* 1157 $−$ “Search for CP violating top quark couplings in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-007/index.html), [JHEP 07 (2023) 023](https://doi.org/10.1007/JHEP07%282023%29023) (2023-07-04), [arXiv:2205.07434](https://arxiv.org/abs/2205.07434) (2022-05-16).
* 1156 $−$ “Search for heavy resonances and quantum black holes in e$μ$, e$τ$, and $μτ$ final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-014/index.html), [JHEP 05 (2023) 227](https://doi.org/10.1007/JHEP05%282023%29227) (2023-05-30), [arXiv:2205.06709](https://arxiv.org/abs/2205.06709) (2022-05-13).
* 1155 $−$ “Search for nonresonant pair production of highly energetic Higgs bosons decaying to bottom quarks"
[CMS-B2G-22-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-22-003/index.html), [PRL 131 (2023) 041803](https://doi.org/10.1103/PhysRevLett.131.041803) (2023-07-25), [arXiv:2205.06667](https://arxiv.org/abs/2205.06667) (2022-05-13).
* 1154 $−$ “Observation of electroweak W$​^{+}$W$​^{−}$ pair production in association with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-001/index.html), [PLB 841 (2023) 137495](https://doi.org/10.1016/j.physletb.2022.137495) (2023-04-28), [arXiv:2205.05711](https://arxiv.org/abs/2205.05711) (2022-05-11).
* 1153 $−$ “Search for Higgs boson decay to a charm quark-antiquark pair in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-008/index.html), [PRL 131 (2023) 061801](https://doi.org/10.1103/PhysRevLett.131.061801) (2023-08-07), [arXiv:2205.05550](https://arxiv.org/abs/2205.05550) (2022-05-11).
* 1152 $−$ “Constraints on anomalous Higgs boson couplings to vector bosons and fermions from the production of Higgs bosons using the $ττ$ final state"
[CMS-HIG-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-007/index.html), [PRD 108 (2023) 032013](https://doi.org/10.1103/PhysRevD.108.032013) (2023-08-01), [arXiv:2205.05120](https://arxiv.org/abs/2205.05120) (2022-05-10).
* 1151 $−$ “Measurement of the mass dependence of the transverse momentum of lepton pairs in Drell–Yan production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-003/index.html), [EPJC 83 (2023) 628](https://doi.org/10.1140/epjc/s10052-023-11631-7) (2023-07-17), [arXiv:2205.04897](https://arxiv.org/abs/2205.04897) (2022-05-10).
* 1150 $−$ “CMS PYTHIA 8 colour reconnection tunes based on underlying-event data"
[CMS-GEN-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-17-002/index.html), [EPJC 83 (2023) 571](https://doi.org/10.1140/epjc/s10052-023-11581-0) (2023-07-10), [arXiv:2205.02905](https://arxiv.org/abs/2205.02905) (2022-05-05).
* 1149 $−$ “Measurement of differential cross sections for the production of a Z boson in association with jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-009/index.html), [PRD 108 (2023) 052004](https://doi.org/10.1103/PhysRevD.108.052004) (2023-09-06), [arXiv:2205.02872](https://arxiv.org/abs/2205.02872) (2022-05-05).
* 1148 $−$ “Search for CP violation using $t‾$ events in the lepton+jets channel in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-005/index.html), [JHEP 06 (2023) 081](https://doi.org/10.1007/JHEP06%282023%29081) (2023-06-14), [arXiv:2205.02314](https://arxiv.org/abs/2205.02314) (2022-05-04).
* 1147 $−$ “Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-008/index.html), [PRD 108 (2023) 012009](https://doi.org/10.1103/PhysRevD.108.012009) (2023-07-01), [arXiv:2205.01835](https://arxiv.org/abs/2205.01835) (2022-05-04).
* 1146 $−$ “Strange hadron collectivity in pPb and PbPb collisions"
[CMS-HIN-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-004/index.html), [JHEP 05 (2023) 007](https://doi.org/10.1007/JHEP05%282023%29007) (2023-05-02), [arXiv:2205.00080](https://arxiv.org/abs/2205.00080) (2022-04-29).
* 1145 $−$ “Azimuthal Correlations within Exclusive Dijets with Large Momentum Transfer in Photon-Lead Collisions"
[CMS-HIN-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-011/index.html), [PRL 131 (2023) 051901](https://doi.org/10.1103/PhysRevLett.131.051901) (2023-08-01), [arXiv:2205.00045](https://arxiv.org/abs/2205.00045) (2022-04-29).
* 1144 $−$ “Search for light Higgs bosons from supersymmetric cascade decays in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-018/index.html), [EPJC 83 (2023) 571](https://doi.org/10.1140/epjc/s10052-023-11581-0) (2023-07-06), [arXiv:2204.13532](https://arxiv.org/abs/2204.13532) (2022-04-28).
* 1143 $−$ “Two-particle azimuthal correlations in $γ$p interactions using pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-008/index.html), [PLB 844 (2023) 137905](https://doi.org/10.1016/j.physletb.2023.137905) (2023-09-10), [arXiv:2204.13486](https://arxiv.org/abs/2204.13486) (2022-04-28).
* 1142 $−$ “Search for Higgs boson decays to a Z boson and a photon in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-014/index.html), [JHEP 05 (2023) 233](https://doi.org/10.1007/JHEP05%282023%29233) (2023-05-30), [arXiv:2204.12945](https://arxiv.org/abs/2204.12945) (2022-04-27).
* 1141 $−$ “Measurements of Higgs boson production in the decay channel with a pair of $τ$ leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-010/index.html), [EPJC 83 (2023) 562](https://doi.org/10.1140/epjc/s10052-023-11452-8) (2023-07-04), [arXiv:2204.12957](https://arxiv.org/abs/2204.12957) (2022-04-27).
* 1140 $−$ “Search for a massive scalar resonance decaying to a light scalar and a Higgs boson in the four b quarks final state with boosted topology"
[CMS-B2G-21-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-003/index.html), [PLB 842 (2023) 137392](https://doi.org/10.1016/j.physletb.2022.137392) (2022-08-27), [arXiv:2204.12413](https://arxiv.org/abs/2204.12413) (2022-04-26).
* 1139 $−$ “Reconstruction of decays to merged photons using end-to-end deep learning with domain continuation in the CMS detector"
[CMS-EGM-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-20-001/index.html), [PRD 108 (2023) 052002](https://doi.org/10.1103/PhysRevD.108.052002) (2023-09-01), [arXiv:2204.12313](https://arxiv.org/abs/2204.12313) (2022-04-26).
* 1138 $−$ “Search for new particles in an extended Higgs sector with four b quarks in the final state at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-003/index.html), [PLB 835 (2022) 137566](https://doi.org/10.1016/j.physletb.2022.137566) (2022-11-14), [arXiv:2203.00480](https://arxiv.org/abs/2203.00480) (2022-03-01).
* 1137 $−$ “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-002/index.html), [JHEP 09 (2022) 088](https://doi.org/10.1007/JHEP09%282022%29088) (2022-09-13), [arXiv:2202.12988](https://arxiv.org/abs/2202.12988) (2022-02-25).
* 1136 $−$ “Measurement of the Drell-Yan forward-backward asymmetry at high dilepton masses in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-21-002/index.html), [JHEP 08 (2022) 063](https://doi.org/10.1007/JHEP08%282022%29063) (2022-08-04), [arXiv:2202.12327](https://arxiv.org/abs/2202.12327) (2022-02-24).
* 1135 $−$ “Nuclear modification of $Υ$ states in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-005/index.html), [PLB 835 (2022) 137397](https://doi.org/10.1016/j.physletb.2022.137397) (2022-12-10), [arXiv:2202.11807](https://arxiv.org/abs/2202.11807) (2022-02-23).
* 1134 $−$ “Search for Higgs boson pair production in the four b quark final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-005/index.html), [PRL 129 (2022) 081802](https://doi.org/10.1103/PhysRevLett.129.081802) (2022-08-18), [arXiv:2202.09617](https://arxiv.org/abs/2202.09617) (2022-02-19).
* 1133 $−$ “Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-002/index.html), [PRD 105 (2022) 112007](https://doi.org/10.1103/PhysRevD.105.112007) (2022-06-01), [arXiv:2202.08676](https://arxiv.org/abs/2202.08676) (2022-02-17).
* 1132 $−$ “Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production"
[CMS-HIG-21-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-013/index.html), [NP 18 (2022) 1329](https://doi.org/10.1038/s41567-022-01682-0) (2022-10-20), [arXiv:2202.06923](https://arxiv.org/abs/2202.06923) (2022-02-14).
* 1131 $−$ “Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-017/index.html), [JHEP 07 (2022) 067](https://doi.org/10.1007/JHEP07%282022%29067) (2022-07-11), [arXiv:2202.06075](https://arxiv.org/abs/2202.06075) (2022-02-12).
* 1130 $−$ “Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-003/index.html), [PRD 105 (2022) 092007](https://doi.org/10.1103/PhysRevD.105.092007) (2022-05-01), [arXiv:2201.11585](https://arxiv.org/abs/2201.11585) (2022-01-27).
* 1129 $−$ “Observation of $B^{0}\rightarrow ψ\left(2S\right)K\_{S}^{0}π^{+}π^{−}$ and $B\_{s}^{0}\rightarrow ψ\left(2S\right)K\_{S}^{0}$ decays"
[CMS-BPH-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-004/index.html), [EPJC 82 (2022) 499](https://doi.org/10.1140/epjc/s10052-022-10315-y) (2022-05-31), [arXiv:2201.09131](https://arxiv.org/abs/2201.09131) (2022-01-22).
* 1128 $−$ “Search for resonances decaying to three W bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-001/index.html), [PRL 129 (2022) 021802](https://doi.org/10.1103/PhysRevLett.129.021802) (2022-07-06), [arXiv:2201.08476](https://arxiv.org/abs/2201.08476) (2022-01-20).
* 1127 $−$ “Identification of hadronic tau lepton decays using a deep neural network"
[CMS-TAU-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-20-001/index.html), [JINST 17 (2022) P07023](https://doi.org/10.1088/1748-0221/17/07/P07023) (2022-07-13), [arXiv:2201.08458](https://arxiv.org/abs/2201.08458) (2022-01-20).
* 1126 $−$ “Precision measurement of the W boson decay branching fractions in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-011/index.html), [PRD 105 (2022) 072008](https://doi.org/10.1103/PhysRevD.105.072008) (2022-04-01), [arXiv:2201.07861](https://arxiv.org/abs/2201.07861) (2022-01-19).
* 1125 $−$ “Search for charged-lepton flavor violation in top quark production and decay in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-006/index.html), [JHEP 06 (2022) 082](https://doi.org/10.1007/JHEP06%282022%29082) (2022-06-15), [arXiv:2201.07859](https://arxiv.org/abs/2201.07859) (2022-01-19).
* 1124 $−$ “Measurement of the inclusive and differential $t‾γ$ cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-004/index.html), [JHEP 05 (2022) 091](https://doi.org/10.1007/JHEP05%282022%29091) (2022-05-16), [arXiv:2201.07301](https://arxiv.org/abs/2201.07301) (2022-01-18).
* 1123 $−$ “Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-009/index.html), [JHEP 07 (2022) 081](https://doi.org/10.1007/JHEP07%282022%29081) (2022-07-14), [arXiv:2201.05578](https://arxiv.org/abs/2201.05578) (2022-01-14).
* 1122 $−$ “Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-004/index.html), [JHEP 05 (2022) 014](https://doi.org/10.1007/JHEP05%282022%29014) (2022-05-03), [arXiv:2201.04206](https://arxiv.org/abs/2201.04206) (2022-01-12).
* 1121 $−$ “Observation of the $B\_{c}^{+}$ meson in PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-004/index.html), [PRL 128 (2022) 252301](https://doi.org/10.1103/PhysRevLett.128.252301) (2022-06-21), [arXiv:2201.02659](https://arxiv.org/abs/2201.02659) (2022-01-07).
* 1120 $−$ “Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-007/index.html), [PLB 832 (2022) 137263](https://doi.org/10.1016/j.physletb.2022.137263) (2022-09-10), [arXiv:2201.02140](https://arxiv.org/abs/2201.02140) (2022-01-06).
* 1119 $−$ “Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-004/index.html), [JHEP 05 (2022) 093](https://doi.org/10.1007/JHEP05%282022%29093) (2022-05-16), [arXiv:2201.02227](https://arxiv.org/abs/2201.02227) (2022-01-06).
* 1118 $−$ “Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV collected with a dedicated high-rate data stream"
[CMS-EXO-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-014/index.html), [JHEP 04 (2022) 062](https://doi.org/10.1007/JHEP04%282022%29062) (2022-04-11), [arXiv:2112.13769](https://arxiv.org/abs/2112.13769) (2021-12-27).
* 1117 $−$ “Search for resonances decaying to three W bosons in the hadronic final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-21-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-21-002/index.html), [PRD 106 (2022) 012002](https://doi.org/10.1103/PhysRevD.106.012002) (2022-07-01), [arXiv:2112.13090](https://arxiv.org/abs/2112.13090) (2021-12-24).
* 1116 $−$ “Probing charm quark dynamics via multiparticle correlations in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-20-001/index.html), [PRL 129 (2022) 022001](https://doi.org/10.1103/PhysRevLett.129.022001) (2022-07-05), [arXiv:2112.12236](https://arxiv.org/abs/2112.12236) (2021-12-23).
* 1115 $−$ “Search for resonant production of strongly coupled dark matter in proton-proton collisions at 13 TeV"
[CMS-EXO-19-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-020/index.html), [JHEP 06 (2022) 156](https://doi.org/10.1007/JHEP06%282022%29156) (2022-06-29), [arXiv:2112.11125](https://arxiv.org/abs/2112.11125) (2021-12-21).
* 1114 $−$ “Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-002/index.html), [JHEP 02 (2022) 169](https://doi.org/10.1007/JHEP02%282022%29169) (2022-02-21), [arXiv:2112.09734](https://arxiv.org/abs/2112.09734) (2021-12-17).
* 1113 $−$ “Measurement of the production cross section for Z + b jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-015/index.html), [PRD 105 (2022) 092014](https://doi.org/10.1103/PhysRevD.105.092014) (2022-05-01), [arXiv:2112.09659](https://arxiv.org/abs/2112.09659) (2021-12-17).
* 1112 $−$ “Measurement of the inclusive $t‾$ production cross section in proton-proton collisions at $\sqrt{s}=$ 5.02 TeV"
[CMS-TOP-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-004/index.html), [JHEP 04 (2022) 144](https://doi.org/10.1007/JHEP04%282022%29144) (2022-04-26), [arXiv:2112.09114](https://arxiv.org/abs/2112.09114) (2021-12-16).
* 1111 $−$ “Evidence for WW/WZ vector boson scattering in the decay channel $ℓν$qq produced in association with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-013/index.html), [PLB 834 (2022) 137438](https://doi.org/10.1016/j.physletb.2022.137438) (2022-11-10), [arXiv:2112.05259](https://arxiv.org/abs/2112.05259) (2021-12-09).
* 1110 $−$ “Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-002/index.html), [JHEP 04 (2022) 047](https://doi.org/10.1007/JHEP04%282022%29047) (2022-04-08), [arXiv:2112.03949](https://arxiv.org/abs/2112.03949) (2021-12-07).
* 1109 $−$ “Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-007/index.html), [JHEP 05 (2022) 005](https://doi.org/10.1007/JHEP05%282022%29005) (2022-05-02), [arXiv:2112.03161](https://arxiv.org/abs/2112.03161) (2021-12-06).
* 1108 $−$ “Measurements of the associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-013/index.html), [EPJC 82 (2022) 1094](https://doi.org/10.1140/epjc/s10052-022-10897-7) (2022-12-05), [arXiv:2112.00895](https://arxiv.org/abs/2112.00895) (2021-12-02).
* 1107 $−$ “Measurement of $W^{\pm }γ$ differential cross sections in proton-proton collisions at $\sqrt{s}=$ 13 TeV and effective field theory constraints"
[CMS-SMP-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-005/index.html), [PRD 105 (2022) 052003](https://doi.org/10.1103/PhysRevD.105.052003) (2022-03-01), [arXiv:2111.13948](https://arxiv.org/abs/2111.13948) (2021-11-27).
* 1106 $−$ “Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-013/index.html), [JHEP 04 (2022) 087](https://doi.org/10.1007/JHEP04%282022%29087) (2022-04-14), [arXiv:2111.13669](https://arxiv.org/abs/2111.13669) (2021-11-27).
* 1105 $−$ “Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-011/index.html), [JHEP 02 (2022) 142](https://doi.org/10.1007/JHEP02%282022%29142) (2022-12-07), [arXiv:2111.10431](https://arxiv.org/abs/2111.10431) (2021-11-19).
* 1104 $−$ “Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-010/index.html), [JHEP 04 (2022) 048](https://doi.org/10.1007/JHEP04%282022%29048) (2022-04-08), [arXiv:2111.10216](https://arxiv.org/abs/2111.10216) (2021-11-19).
* 1103 $−$ “Strategies and performance of the CMS silicon tracker alignment during LHC Run 2"
[CMS-TRK-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-20-001/index.html), [NIM A 1037 (2022) 166795](https://doi.org/10.1016/j.nima.2022.166795) (2022-08-11), [arXiv:2111.08757](https://arxiv.org/abs/2111.08757) (2021-11-17).
* 1102 $−$ “Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-004/index.html), [JHEP 04 (2022) 091](https://doi.org/10.1007/JHEP04%282022%29091) (2022-04-14), [arXiv:2111.06296](https://arxiv.org/abs/2111.06296) (2021-11-11).
* 1101 $−$ “Observation of triple J/$ψ$ meson production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-21-004/index.html), [NP 19 (2023) 338](https://doi.org/10.1038/s41567-022-01838-y) (2023-01-19), [arXiv:2111.05370](https://arxiv.org/abs/2111.05370) (2021-11-09).
* 1100 $−$ “Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s}=$ 2.76 TeV"
[CMS-FSQ-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-004/index.html), [JHEP 03 (2022) 189](https://doi.org/10.1007/JHEP03%282022%29189) (2022-03-28), [arXiv:2111.04605](https://arxiv.org/abs/2111.04605) (2021-11-08).
* 1099 $−$ “A new calibration method for charm jet identification validated with proton-proton collision events at $\sqrt{s}=$ 13 TeV"
[CMS-BTV-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BTV-20-001/index.html), [JINST 17 (2022) P03014](https://doi.org/10.1088/1748-0221/17/03/P03014) (2022-03-17), [arXiv:2111.03027](https://arxiv.org/abs/2111.03027) (2021-11-04).
* 1098 $−$ “Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-010/index.html), [JHEP 02 (2022) 107](https://doi.org/10.1007/JHEP02%282022%29107) (2022-02-14), [arXiv:2111.02860](https://arxiv.org/abs/2111.02860) (2021-11-04).
* 1097 $−$ “Search for flavor-changing neutral current interactions of the top quark and Higgs boson in final states with two photons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-007/index.html), [PRL 129 (2022) 032001](https://doi.org/10.1103/PhysRevLett.129.032001) (2022-07-13), [arXiv:2111.02219](https://arxiv.org/abs/2111.02219) (2021-11-03).
* 1096 $−$ “Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-007/index.html), [EPJC 82 (2022) 290](https://doi.org/10.1140/epjc/s10052-022-10127-0) (2022-04-04), [arXiv:2111.01299](https://arxiv.org/abs/2111.01299) (2021-11-01).
* 1095 $−$ “Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-003/index.html), [JHEP 03 (2022) 160](https://doi.org/10.1007/JHEP03%282022%29160) (2022-03-24), [arXiv:2110.13218](https://arxiv.org/abs/2110.13218) (2021-10-25).
* 1094 $−$ “Measurement of the inclusive and differential WZ production cross sections, polarization angles, and triple gauge couplings in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-014/index.html), [JHEP 07 (2022) 032](https://doi.org/10.1007/JHEP07%282022%29032) (2022-07-05), [arXiv:2110.11231](https://arxiv.org/abs/2110.11231) (2021-10-21).
* 1093 $−$ “First search for exclusive diphoton production at high mass with tagged protons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-014/index.html), [PRL 129 (2022) 011801](https://doi.org/10.1103/PhysRevLett.129.011801) (2022-06-28), [arXiv:2110.05916](https://arxiv.org/abs/2110.05916) (2021-10-12).
* 1092 $−$ “Analysis of the CP structure of the Yukawa coupling between the Higgs boson and $τ$ leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-006/index.html), [JHEP 06 (2022) 012](https://doi.org/10.1007/JHEP06%282022%29012) (2022-06-03), [arXiv:2110.04836](https://arxiv.org/abs/2110.04836) (2021-10-10).
* 1091 $−$ “Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-003/index.html), [EPJC 82 (2022) 153](https://doi.org/10.1140/epjc/s10052-022-10027-3) (2022-02-17), [arXiv:2110.04809](https://arxiv.org/abs/2110.04809) (2021-10-10).
* 1090 $−$ “Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-007/index.html), [JHEP 01 (2022) 177](https://doi.org/10.1007/JHEP01%282022%29177) (2022-01-28), [arXiv:2109.13822](https://arxiv.org/abs/2109.13822) (2021-09-29).
* 1089 $−$ “Search for heavy resonances decaying to Z($ν‾$)V($q‾′$) in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-008/index.html), [PRD 106 (2022) 012004](https://doi.org/10.1103/PhysRevD.106.012004) (2022-07-01), [arXiv:2109.08268](https://arxiv.org/abs/2109.08268) (2021-09-17).
* 1088 $−$ “Search for heavy resonances decaying to WW, WZ, or WH boson pairs in the lepton plus merged jet final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-002/index.html), [PRD 105 (2022) 032008](https://doi.org/10.1103/PhysRevD.105.032008) (2022-02-01), [arXiv:2109.06055](https://arxiv.org/abs/2109.06055) (2021-09-13).
* 1087 $−$ “Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions"
[CMS-SMP-20-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-010/index.html), [JHEP 01 (2022) 188](https://doi.org/10.1007/JHEP01%282022%29188) (2022-01-31), [arXiv:2109.03340](https://arxiv.org/abs/2109.03340) (2021-09-08).
* 1086 $−$ “Observation of $B\_{s}^{0}$ mesons and measurement of the $B\_{s}^{0}/B^{+}$ yield ratio in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-011/index.html), [PLB 829 (2022) 137062](https://doi.org/10.1016/j.physletb.2022.137062) (2022-04-04), [arXiv:2109.01908](https://arxiv.org/abs/2109.01908) (2021-09-04).
* 1085 $−$ “Observation of tW production in the single-lepton channel in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-002/index.html), [JHEP 11 (2021) 111](https://doi.org/10.1007/JHEP11%282021%29111) (2021-11-15), [arXiv:2109.01706](https://arxiv.org/abs/2109.01706) (2021-09-03).
* 1084 $−$ “Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-009/index.html), [JHEP 12 (2021) 161](https://doi.org/10.1007/JHEP12%282021%29161) (2021-12-22), [arXiv:2108.10407](https://arxiv.org/abs/2108.10407) (2021-08-24).
* 1083 $−$ “Measurement of differential $t‾$ production cross sections in the full kinematic range using lepton+jets events from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-001/index.html), [PRD 104 (2021) 092013](https://doi.org/10.1103/PhysRevD.104.092013) (2021-11-01), [arXiv:2108.02803](https://arxiv.org/abs/2108.02803) (2021-08-05).
* 1082 $−$ “Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-21-001/index.html), [JHEP 12 (2021) 083](https://doi.org/10.1007/JHEP12%282021%29083) (2021-12-13), [arXiv:2107.13896](https://arxiv.org/abs/2107.13896) (2021-07-29).
* 1081 $−$ “Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-004/index.html), [JHEP 11 (2021) 153](https://doi.org/10.1007/JHEP11%282021%29153) (2021-11-19), [arXiv:2107.13021](https://arxiv.org/abs/2107.13021) (2021-07-27).
* 1080 $−$ “Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb$​^{−1}$ of proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-003/index.html), [JHEP 10 (2021) 045](https://doi.org/10.1007/JHEP10%282021%29045) (2021-10-06), [arXiv:2107.12553](https://arxiv.org/abs/2107.12553) (2021-07-26).
* 1079 $−$ “Measurement of the inclusive and differential Higgs boson production cross sections in the decay mode to a pair of $τ$ leptons in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-015/index.html), [PRL 128 (2022) 081805](https://doi.org/10.1103/PhysRevLett.128.081805) (2022-02-23), [arXiv:2107.11486](https://arxiv.org/abs/2107.11486) (2021-07-23).
* 1078 $−$ “Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-20-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-002/index.html), [EPJC 81 (2021) 970](https://doi.org/10.1140/epjc/s10052-021-09721-5) (2021-11-03), [arXiv:2107.10892](https://arxiv.org/abs/2107.10892) (2021-07-22).
* 1077 $−$ “Search for long-lived particles decaying in the CMS endcap muon detectors in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-015/index.html), [PRL 127 (2021) 261804](https://doi.org/10.1103/PhysRevLett.127.261804) (2021-12-23), [arXiv:2107.04838](https://arxiv.org/abs/2107.04838) (2021-07-10).
* 1076 $−$ “Measurement of the inclusive and differential $t‾γ$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-010/index.html), [JHEP 12 (2021) 180](https://doi.org/10.1007/JHEP12%282021%29180) (2021-12-23), [arXiv:2107.01508](https://arxiv.org/abs/2107.01508) (2021-07-03).
* 1075 $−$ “Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-003/index.html), [JHEP 11 (2021) 225](https://doi.org/10.1007/JHEP11%282021%29225) (2021-11-30), [arXiv:2107.01476](https://arxiv.org/abs/2107.01476) (2021-07-03).
* 1074 $−$ “Measurements of the electroweak diboson production cross sections in proton-proton collisions at $\sqrt{s}=$ 5.02 TeV using leptonic decays"
[CMS-SMP-20-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-012/index.html), [PRL 127 (2021) 191801](https://doi.org/10.1103/PhysRevLett.127.191801) (2021-11-02), [arXiv:2107.01137](https://arxiv.org/abs/2107.01137) (2021-07-02).
* 1073 $−$ “Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-012/index.html), [JHEP 04 (2022) 147](https://doi.org/10.1007/JHEP04%282022%29147) (2022-04-26), [arXiv:2106.14246](https://arxiv.org/abs/2106.14246) (2021-06-27).
* 1072 $−$ “Fragmentation of jets containing a prompt $J/ψ$ meson in PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-007/index.html), [PLB 825 (2021) 136842](https://doi.org/10.1016/j.physletb.2021.136842) (2022-02-10), [arXiv:2106.13235](https://arxiv.org/abs/2106.13235) (2021-06-23).
* 1071 $−$ “Measurement of the electroweak production of Z$γ$ and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV and constraints on anomalous quartic gauge couplings"
[CMS-SMP-20-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-016/index.html), [PRD 104 (2021) 072001](https://doi.org/10.1103/PhysRevD.104.072001) (2021-10-05), [arXiv:2106.11082](https://arxiv.org/abs/2106.11082) (2021-06-21).
* 1070 $−$ “Search for $Wγ$ resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV using hadronic decays of Lorentz-boosted W bosons"
[CMS-EXO-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-001/index.html), [PLB 826 (2022) 136888](https://doi.org/10.1016/j.physletb.2022.136888) (2022-03-10), [arXiv:2106.10509](https://arxiv.org/abs/2106.10509) (2021-06-19).
* 1069 $−$ “Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $ττbb$ final state at 13 TeV"
[CMS-HIG-20-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-014/index.html), [JHEP 11 (2021) 057](https://doi.org/10.1007/JHEP11%282021%29057) (2021-11-09), [arXiv:2106.10361](https://arxiv.org/abs/2106.10361) (2021-06-18).
* 1068 $−$ “Measurements of Z bosons plus jets using variables sensitive to double parton scattering in pp collisions at 13 TeV"
[CMS-SMP-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-009/index.html), [JHEP 10 (2021) 176](https://doi.org/10.1007/JHEP10%282021%29176) (2021-10-21), [arXiv:2105.14511](https://arxiv.org/abs/2105.14511) (2021-05-30).
* 1067 $−$ “Measurements of the $pp\rightarrow W^{\pm }γγ$ and $pp\rightarrow Zγγ$ cross sections at $\sqrt{s}=$ 13 TeV and limits on anomalous quartic gauge couplings"
[CMS-SMP-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-013/index.html), [JHEP 10 (2021) 174](https://doi.org/10.1007/JHEP10%282021%29174) (2021-10-21), [arXiv:2105.12780](https://arxiv.org/abs/2105.12780) (2021-05-26).
* 1066 $−$ “Search for strongly interacting massive particles generating trackless jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-010/index.html), [EPJC 82 (2022) 213](https://doi.org/10.1140/epjc/s10052-022-10095-5) (2022-03-10), [arXiv:2105.09178](https://arxiv.org/abs/2105.09178) (2021-05-19).
* 1065 $−$ “Search for lepton-flavor violating decays of the Higgs boson in the $μτ$ and e$τ$ final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-009/index.html), [PRD 104 (2021) 032013](https://doi.org/10.1103/PhysRevD.104.032013) (2021-08-01), [arXiv:2105.03007](https://arxiv.org/abs/2105.03007) (2021-05-07).
* 1064 $−$ “Search for long-lived particles decaying to jets with displaced vertices in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-013/index.html), [PRD 104 (2021) 052011](https://doi.org/10.1103/PhysRevD.104.052011) (2021-09-01), [arXiv:2104.13474](https://arxiv.org/abs/2104.13474) (2021-04-28).
* 1063 $−$ “Search for a heavy resonance decaying to a top quark and a W boson at $\sqrt{s}=$ 13 TeV in the fully hadronic final state"
[CMS-B2G-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-003/index.html), [JHEP 12 (2021) 106](https://doi.org/10.1007/JHEP12%282021%29106) (2021-12-16), [arXiv:2104.12853](https://arxiv.org/abs/2104.12853) (2021-04-26).
* 1062 $−$ “Constraints on anomalous Higgs boson couplings to vector bosons and fermions in its production and decay using the four-lepton final state"
[CMS-HIG-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-009/index.html), [PRD 104 (2021) 052004](https://doi.org/10.1103/PhysRevD.104.052004) (2021-09-01), [arXiv:2104.12152](https://arxiv.org/abs/2104.12152) (2021-04-25).
* 1061 $−$ “Search for W’ bosons decaying to a top and a bottom quark at $\sqrt{s}=$ 13 TeV in the hadronic final state"
[CMS-B2G-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-20-005/index.html), [PLB 820 (2021) 136535](https://doi.org/10.1016/j.physletb.2021.136535) (2021-09-10), [arXiv:2104.04831](https://arxiv.org/abs/2104.04831) (2021-04-11).
* 1060 $−$ “Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-20-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-20-017/index.html), [EPJC 81 (2021) 723](https://doi.org/10.1140/epjc/s10052-021-09472-3) (2021-08-11), [arXiv:2104.04762](https://arxiv.org/abs/2104.04762) (2021-04-10).
* 1059 $−$ “Precision luminosity measurement in proton-proton collisions at $\sqrt{s}=$ 13 TeV in 2015 and 2016 at CMS"
[CMS-LUM-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/LUM-17-003/index.html), [EPJC 81 (2021) 800](https://doi.org/10.1140/epjc/s10052-021-09538-2) (2021-09-09), [arXiv:2104.01927](https://arxiv.org/abs/2104.01927) (2021-04-05).
* 1058 $−$ “Constraints on the initial state of PbPb collisions via measurements of Z boson yields and azimuthal anisotropy at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-003/index.html), [PRL 127 (2021) 102002](https://doi.org/10.1103/PhysRevLett.127.102002) (2021-08-31), [arXiv:2103.14089](https://arxiv.org/abs/2103.14089) (2021-03-25).
* 1057 $−$ “Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-015/index.html), [JHEP 07 (2021) 027](https://doi.org/10.1007/JHEP07%282021%29027) (2021-07-07), [arXiv:2103.06956](https://arxiv.org/abs/2103.06956) (2021-03-12).
* 1056 $−$ “Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-001/index.html), [EPJC 81 (2021) 488](https://doi.org/10.1140/epjc/s10052-021-09200-x) (2021-06-02), [arXiv:2103.04956](https://arxiv.org/abs/2103.04956) (2021-03-08).
* 1055 $−$ “Using Z boson events to study parton-medium interactions in PbPb collisions"
[CMS-HIN-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-006/index.html), [PRL 128 (2022) 122301](https://doi.org/10.1103/PhysRevLett.128.122301) (2022-03-23), [arXiv:2103.04377](https://arxiv.org/abs/2103.04377) (2021-03-07).
* 1054 $−$ “Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-019/index.html), [JHEP 07 (2021) 208](https://doi.org/10.1007/JHEP07%282021%29208) (2021-07-27), [arXiv:2103.02708](https://arxiv.org/abs/2103.02708) (2021-03-04).
* 1053 $−$ “Search for top squark production in fully-hadronic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-010/index.html), [PRD 104 (2021) 052001](https://doi.org/10.1103/PhysRevD.104.052001) (2021-09-01), [arXiv:2103.01290](https://arxiv.org/abs/2103.01290) (2021-03-01).
* 1052 $−$ “Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-003/index.html), [JHEP 05 (2021) 182](https://doi.org/10.1007/JHEP05%282021%29182) (2021-05-20), [arXiv:2102.13648](https://arxiv.org/abs/2102.13648) (2021-02-26).
* 1051 $−$ “First measurement of large area jet transverse momentum spectra in heavy-ion collisions"
[CMS-HIN-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-014/index.html), [JHEP 05 (2021) 284](https://doi.org/10.1007/JHEP05%282021%29284) (2021-05-31), [arXiv:2102.13080](https://arxiv.org/abs/2102.13080) (2021-02-25).
* 1050 $−$ “Evidence for X(3872) in PbPb collisions and studies of its prompt production at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-005/index.html), [PRL 128 (2022) 032001](https://doi.org/10.1103/PhysRevLett.128.032001) (2022-01-19), [arXiv:2102.13048](https://arxiv.org/abs/2102.13048) (2021-02-25).
* 1049 $−$ “Measurements of angular distance and momentum ratio distributions in three-jet and Z $+$ two-jet final states in pp collisions"
[CMS-SMP-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-008/index.html), [EPJC 81 (2021) 852](https://doi.org/10.1140/epjc/s10052-021-09570-2) (2021-09-27), [arXiv:2102.08816](https://arxiv.org/abs/2102.08816) (2021-02-17).
* 1048 $−$ “Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-006/index.html), [EPJC 81 (2021) 688](https://doi.org/10.1140/epjc/s10052-021-09348-6) (2021-08-03), [arXiv:2102.08198](https://arxiv.org/abs/2102.08198) (2021-02-16).
* 1047 $−$ “Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-004/index.html), [PRD 104 (2021) 032006](https://doi.org/10.1103/PhysRevD.104.032006) (2021-08-01), [arXiv:2102.06976](https://arxiv.org/abs/2102.06976) (2021-02-13).
* 1046 $−$ “Hard color-singlet exchange in dijet events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-006/index.html), [PRD 104 (2021) 032009](https://doi.org/10.1103/PhysRevD.104.032009) (2021-08-26), [arXiv:2102.06945](https://arxiv.org/abs/2102.06945) (2021-02-13).
* 1045 $−$ “Performance of the CMS muon trigger system in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-MUO-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-19-001/index.html), [JINST 16 (2021) P07001](https://doi.org/10.1088/1748-0221/16/07/P07001) (2021-07-02), [arXiv:2102.04790](https://arxiv.org/abs/2102.04790) (2021-02-09).
* 1044 $−$ “Observation of a new excited beauty strange baryon decaying to $Ξ\_{b}^{−}π^{+}π^{−}$"
[CMS-BPH-20-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-20-004/index.html), [PRL 126 (2021) 252003](https://doi.org/10.1103/PhysRevLett.126.252003) (2021-06-25), [arXiv:2102.04524](https://arxiv.org/abs/2102.04524) (2021-02-08).
* 1043 $−$ “Measurement of W$γ$ production cross section in proton-proton collisions at $\sqrt{s}=$ 13 TeV and constraints on effective field theory coefficients"
[CMS-SMP-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-002/index.html), [PRL 126 (2021) 252002](https://doi.org/10.1103/PhysRevLett.126.252002) (2021-06-25), [arXiv:2102.02283](https://arxiv.org/abs/2102.02283) (2021-02-03).
* 1042 $−$ “Measurements of the differential cross sections of the production of Z$+$jets and $γ+$jets and of Z boson emission collinear with a jet in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-010/index.html), [JHEP 05 (2021) 285](https://doi.org/10.1007/JHEP05%282021%29285) (2021-05-31), [arXiv:2102.02238](https://arxiv.org/abs/2102.02238) (2021-02-03).
* 1041 $−$ “In-medium modification of dijets in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-013/index.html), [JHEP 05 (2021) 116](https://doi.org/10.1007/JHEP05%282021%29116) (2021-05-14), [arXiv:2101.04720](https://arxiv.org/abs/2101.04720) (2021-01-12).
* 1040 $−$ “First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-20-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-20-003/index.html), [PLB 820 (2021) 136565](https://doi.org/10.1016/j.physletb.2021.136565) (2021-09-10), [arXiv:2012.09225](https://arxiv.org/abs/2012.09225) (2020-12-17).
* 1039 $−$ “Measurement of the Z boson differential production cross section using its invisible decay mode (Z $\rightarrow ν‾$) in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-003/index.html), [JHEP 05 (2021) 205](https://doi.org/10.1007/JHEP05%282021%29205) (2021-05-21), [arXiv:2012.09254](https://arxiv.org/abs/2012.09254) (2020-12-16).
* 1038 $−$ “Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-20-001/index.html), [JHEP 04 (2021) 123](https://doi.org/10.1007/JHEP04%282021%29123) (2021-04-14), [arXiv:2012.08600](https://arxiv.org/abs/2012.08600) (2020-12-15).
* 1037 $−$ “Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC"
[CMS-EGM-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-17-001/index.html), [JINST 16 (2021) P05014](https://doi.org/10.1088/1748-0221/16/05/P05014) (2021-05-13), [arXiv:2012.06888](https://arxiv.org/abs/2012.06888) (2020-12-12).
* 1036 $−$ “Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-015/index.html), [PLB 819 (2021) 136446](https://doi.org/10.1016/j.physletb.2021.136446) (2021-08-10), [arXiv:2012.04178](https://arxiv.org/abs/2012.04178) (2020-12-07).
* 1035 $−$ “Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV using effective field theory"
[CMS-TOP-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-001/index.html), [JHEP 03 (2021) 095](https://doi.org/10.1007/JHEP03%282021%29095) (2021-03-09), [arXiv:2012.04120](https://arxiv.org/abs/2012.04120) (2020-12-07).
* 1034 $−$ “Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-011/index.html), [JHEP 04 (2021) 109](https://doi.org/10.1007/JHEP04%282021%29109) (2021-04-13), [arXiv:2012.04119](https://arxiv.org/abs/2012.04119) (2020-12-07).
* 1033 $−$ “Search for long-lived particles using displaced jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-021/index.html), [PRD 104 (2021) 012015](https://doi.org/10.1103/PhysRevD.104.012015) (2021-07-01), [arXiv:2012.01581](https://arxiv.org/abs/2012.01581) (2020-12-02).
* 1032 $−$ “Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-018/index.html), [JHEP 03 (2021) 257](https://doi.org/10.1007/JHEP03%282021%29257) (2021-03-29), [arXiv:2011.12373](https://arxiv.org/abs/2011.12373) (2020-11-24).
* 1031 $−$ “Search for the rare decay of the W boson into a pion and a photon in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-008/index.html), [PLB 819 (2021) 136409](https://doi.org/10.1016/j.physletb.2021.136409) (2021-08-10), [arXiv:2011.06028](https://arxiv.org/abs/2011.06028) (2020-11-11).
* 1030 $−$ “Observation of forward neutron multiplicity dependence of dimuon acoplanarity in ultraperipheral PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-014/index.html), [PRL 127 (2021) 122001](https://doi.org/10.1103/PhysRevLett.127.122001) (2021-09-17), [arXiv:2011.05239](https://arxiv.org/abs/2011.05239) (2020-11-10).
* 1029 $−$ “Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-008/index.html), [EPJC 81 (2021) 378](https://doi.org/10.1140/epjc/s10052-021-09014-x) (2021-04-30), [arXiv:2011.03652](https://arxiv.org/abs/2011.03652) (2020-11-07).
* 1028 $−$ “Development and validation of HERWIG 7 tunes from CMS underlying-event measurements"
[CMS-GEN-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-19-001/index.html), [EPJC 81 (2021) 312](https://doi.org/10.1140/epjc/s10052-021-08949-5) (2021-04-12), [arXiv:2011.03422](https://arxiv.org/abs/2011.03422) (2020-11-06).
* 1027 $−$ “The very forward CASTOR calorimeter of the CMS experiment"
[CMS-PRF-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-18-002/index.html), [JINST 16 (2021) P02010](https://doi.org/10.1088/1748-0221/16/02/P02010) (2021-02-08), [arXiv:2011.01185](https://arxiv.org/abs/2011.01185) (2020-11-02).
* 1026 $−$ “Angular analysis of the decay $B^{+}\rightarrow K^{\*}\left(892\right)^{+}μ^{+}μ^{−}$ in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-009/index.html), [JHEP 04 (2021) 124](https://doi.org/10.1007/JHEP04%282021%29124) (2021-04-14), [arXiv:2010.13968](https://arxiv.org/abs/2010.13968) (2020-10-27).
* 1025 $−$ “MUSiC: a model unspecific search for new physics in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-008/index.html), [EPJC 81 (2021) 629](https://doi.org/10.1140/epjc/s10052-021-09236-z) (2021-07-19), [arXiv:2010.02984](https://arxiv.org/abs/2010.02984) (2020-10-06).
* 1024 $−$ “Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-20-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-20-005/index.html), [JHEP 03 (2021) 011](https://doi.org/10.1007/JHEP03%282021%29011) (2021-03-01), [arXiv:2009.14009](https://arxiv.org/abs/2009.14009) (2020-09-29).
* 1023 $−$ “Search for strong electric fields in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV using azimuthal anisotropy of prompt $D^{0}$ and $\overline{D}​^{0}$ mesons"
[CMS-HIN-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-008/index.html), [PLB 816 (2021) 136253](https://doi.org/10.1016/j.physletb.2021.136253) (2021-05-10), [arXiv:2009.12628](https://arxiv.org/abs/2009.12628) (2020-09-26).
* 1022 $−$ “Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-006/index.html), [PLB 812 (2020) 136018](https://doi.org/10.1016/j.physletb.2020.136018) (2021-01-10), [arXiv:2009.09429](https://arxiv.org/abs/2009.09429) (2020-09-20).
* 1021 $−$ “Measurement of the top quark Yukawa coupling from $t‾$ kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-008/index.html), [PRD 102 (2020) 092013](https://doi.org/10.1103/PhysRevD.102.092013) (2020-11-30), [arXiv:2009.07123](https://arxiv.org/abs/2009.07123) (2020-09-15).
* 1020 $−$ “Studies of charm and beauty hadron long-range correlations in pp and pPb collisions at LHC energies"
[CMS-HIN-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-009/index.html), [PLB 813 (2021) 136036](https://doi.org/10.1016/j.physletb.2020.136036) (2021-02-10), [arXiv:2009.07065](https://arxiv.org/abs/2009.07065) (2020-09-15).
* 1019 $−$ “Evidence for Higgs boson decay to a pair of muons"
[CMS-HIG-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-006/index.html), [JHEP 01 (2021) 148](https://doi.org/10.1007/JHEP01%282021%29148) (2021-01-25), [arXiv:2009.04363](https://arxiv.org/abs/2009.04363) (2020-09-09).
* 1018 $−$ “Measurements of pp $\rightarrow $ ZZ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-001/index.html), [EPJC 81 (2021) 200](https://doi.org/10.1140/epjc/s10052-020-08817-8) (2021-03-01), [arXiv:2009.01186](https://arxiv.org/abs/2009.01186) (2020-09-02).
* 1017 $−$ “$W^{+}W^{−}$ boson pair production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-004/index.html), [PRD 102 (2020) 092001](https://doi.org/10.1103/PhysRevD.102.092001) (2020-11-10), [arXiv:2009.00119](https://arxiv.org/abs/2009.00119) (2020-09-01).
* 1016 $−$ “Observation of electroweak production of W$γ$ with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-008/index.html), [PLB 811 (2020) 135988](https://doi.org/10.1016/j.physletb.2020.135988) (2020-12-10), [arXiv:2008.10521](https://arxiv.org/abs/2008.10521) (2020-08-24).
* 1015 $−$ “A search for bottom-type, vector-like quark pair production in a fully hadronic final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-005/index.html), [PRD 102 (2020) 112004](https://doi.org/10.1103/PhysRevD.102.112004) (2020-12-07), [arXiv:2008.09835](https://arxiv.org/abs/2008.09835) (2020-08-22).
* 1014 $−$ “Measurement of $B\_{c}\left(2S\right)^{+}$ and $B\_{c}^{\*}\left(2S\right)^{+}$ cross section ratios in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-19-001/index.html), [PRD 102 (2020) 092007](https://doi.org/10.1103/PhysRevD.102.092007) (2020-11-17), [arXiv:2008.08629](https://arxiv.org/abs/2008.08629) (2020-08-19).
* 1013 $−$ “Measurement of differential $t‾$ production cross sections using top quarks at large transverse momenta in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-013/index.html), [PRD 103 (2021) 052008](https://doi.org/10.1103/PhysRevD.103.052008) (2021-03-20), [arXiv:2008.07860](https://arxiv.org/abs/2008.07860) (2020-08-18).
* 1012 $−$ “Evidence for electroweak production of four charged leptons and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-20-001/index.html), [PLB 812 (2020) 135992](https://doi.org/10.1016/j.physletb.2020.135992) (2021-01-10), [arXiv:2008.07013](https://arxiv.org/abs/2008.07013) (2020-08-17).
* 1011 $−$ “Search for top squark pair production using dilepton final states in pp collision data collected at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-011/index.html), [EPJC 81 (2021) 3](https://doi.org/10.1140/epjc/s10052-020-08701-5) (2021-01-05), [arXiv:2008.05936](https://arxiv.org/abs/2008.05936) (2020-08-13).
* 1010 $−$ “Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-003/index.html), [EPJC 81 (2021) 13](https://doi.org/10.1140/epjc/s10052-020-08739-5) (2021-01-11), [arXiv:2008.04735](https://arxiv.org/abs/2008.04735) (2020-08-11).
* 1009 $−$ “Search for supersymmetry in proton-proton collisions at $\sqrt{s}=$ 13 TeV in events with high-momentum Z bosons and missing transverse momentum"
[CMS-SUS-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-013/index.html), [JHEP 09 (2020) 149](https://doi.org/10.1007/JHEP09%282020%29149) (2020-09-23), [arXiv:2008.04422](https://arxiv.org/abs/2008.04422) (2020-08-10).
* 1008 $−$ “Measurements of the W boson rapidity, helicity, double-differential cross sections, and charge asymmetry in pp collisions at 13 TeV"
[CMS-SMP-18-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-012/index.html), [PRD 102 (2020) 092012](https://doi.org/10.1103/PhysRevD.102.092012) (2020-11-30), [arXiv:2008.04174](https://arxiv.org/abs/2008.04174) (2020-08-10).
* 1007 $−$ “Search for the lepton flavor violating decay $τ​\rightarrow ​3μ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-17-004/index.html), [JHEP 01 (2021) 163](https://doi.org/10.1007/JHEP01%282021%29163) (2021-01-26), [arXiv:2007.05658](https://arxiv.org/abs/2007.05658) (2020-07-11).
* 1006 $−$ “Search for decays of the 125 GeV Higgs boson into a Z boson and a $ρ$ or $ϕ$ meson"
[CMS-HIG-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-012/index.html), [JHEP 11 (2020) 039](https://doi.org/DOI%3A10.1007/JHEP11%282020%29039) (2020-11-10), [arXiv:2007.05122](https://arxiv.org/abs/2007.05122) (2020-07-09).
* 1005 $−$ “Investigation into the event-activity dependence of $Υ\left(nS\right)$ relative production in proton-proton collisions at $\sqrt{s}=$ 7 TeV"
[CMS-BPH-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-009/index.html), [JHEP 11 (2020) 001](https://doi.org/10.1007/JHEP11%282020%29001) (2020-11-02), [arXiv:2007.04277](https://arxiv.org/abs/2007.04277) (2020-07-09).
* 1004 $−$ “Measurement of the CP-violating phase $ϕ\_{s}$ in the $B\_{s}^{0}\rightarrow J/ψ ϕ\left(1020\right)\rightarrow μ^{+}μ^{−} K^{+}K^{−}$ channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-20-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-20-001/index.html), [PLB 816 (2021) 136188](https://doi.org/10.1016/j.physletb.2021.136188) (2021-05-10), [arXiv:2007.02434](https://arxiv.org/abs/2007.02434) (2020-07-05).
* 1003 $−$ “Measurement of the inclusive and differential Higgs boson production cross sections in the leptonic WW decay mode at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-002/index.html), [JHEP 03 (2021) 003](https://doi.org/10.1007/JHEP03%282021%29003) (2021-03-01), [arXiv:2007.01984](https://arxiv.org/abs/2007.01984) (2020-07-04).
* 1002 $−$ “Reconstruction of signal amplitudes in the CMS electromagnetic calorimeter in the presence of overlapping proton-proton interactions"
[CMS-EGM-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-18-001/index.html), [JINST 15 (2020) P10002](https://doi.org/10.1088/1748-0221/15/10/P10002) (2020-10-01), [arXiv:2006.14359](https://arxiv.org/abs/2006.14359) (2020-06-25).
* 1001 $−$ “Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-003/index.html), [JHEP 12 (2020) 085](https://doi.org/10.1007/JHEP12%282020%29085) (2020-12-11), [arXiv:2006.13251](https://arxiv.org/abs/2006.13251) (2020-06-24).
* 1000 $−$ “Observation of the production of three massive gauge bosons at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-014/index.html), [PRL 125 (2020) 151802](https://doi.org/10.1103/PhysRevLett.125.151802) (2020-10-06), [arXiv:2006.11191](https://arxiv.org/abs/2006.11191) (2020-06-19).
* 999 $−$ “Evidence for top quark production in nucleus-nucleus collisions"
[CMS-HIN-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-001/index.html), [PRL 125 (2020) 222001](https://doi.org/10.1103/PhysRevLett.125.222001) (2020-11-24), [arXiv:2006.11110](https://arxiv.org/abs/2006.11110) (2020-06-19).
* 998 $−$ “Performance of the CMS Level-1 trigger in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TRG-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRG-17-001/index.html), [JINST 15 (2020) P10017](https://doi.org/10.1088/1748-0221/15/10/P10017) (2020-10-19), [arXiv:2006.10165](https://arxiv.org/abs/2006.10165) (2020-06-18).
* 997 $−$ “Measurement of the azimuthal anisotropy of $Υ\left(1S\right)$ and $Υ\left(2S\right)$ mesons in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-19-002/index.html), [PLB 819 (2021) 136385](https://doi.org/10.1016/j.physletb.2021.136385) (2021-08-10), [arXiv:2006.07707](https://arxiv.org/abs/2006.07707) (2020-06-14).
* 996 $−$ “Search for resonant pair production of Higgs bosons in the bbZZ channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-013/index.html), [PRD 102 (2020) 032003](https://doi.org/10.1103/PhysRevD.102.032003) (2020-08-13), [arXiv:2006.06391](https://arxiv.org/abs/2006.06391) (2020-06-11).
* 995 $−$ “Measurement of b jet shapes in proton-proton collisions at $\sqrt{s}=$ 5.02 TeV"
[CMS-HIN-18-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-020/index.html), [JHEP 05 (2021) 054](https://doi.org/10.1007/JHEP05%282021%29054) (2021-05-07), [arXiv:2005.14219](https://arxiv.org/abs/2005.14219) (2020-05-28).
* 994 $−$ “Search for a light charged Higgs boson in the $H^{\pm }\rightarrow cs$ channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-021/index.html), [PRD 102 (2020) 072001](https://doi.org/10.1103/PhysRevD.102.072001) (2020-10-06), [arXiv:2005.08900](https://arxiv.org/abs/2005.08900) (2020-05-18).
* 993 $−$ “Search for a light pseudoscalar Higgs boson in the boosted $μμττ$ final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-024/index.html), [JHEP 08 (2020) 139](https://doi.org/10.1007/JHEP08%282020%29139) (2020-08-27), [arXiv:2005.08694](https://arxiv.org/abs/2005.08694) (2020-05-18).
* 992 $−$ “Dependence of inclusive jet production on the anti-$k\_{T}$ distance parameter in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-003/index.html), [JHEP 12 (2020) 082](https://doi.org/10.1007/JHEP12%282020%29082) (2020-12-11), [arXiv:2005.05159](https://arxiv.org/abs/2005.05159) (2020-05-11).
* 991 $−$ “Observation of the $B\_{s}^{0}\rightarrow X\left(3872\right)ϕ$ decay"
[CMS-BPH-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-17-005/index.html), [PRL 125 (2020) 152001](https://doi.org/10.1103/PhysRevLett.125.152001) (2020-10-08), [arXiv:2005.04764](https://arxiv.org/abs/2005.04764) (2020-05-10).
* 990 $−$ “Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-004/index.html), [JHEP 08 (2020) 051](https://doi.org/10.1007/JHEP08%282020%29051) (2020-08-12), [arXiv:2005.03799](https://arxiv.org/abs/2005.03799) (2020-05-07).
* 989 $−$ “Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-012/index.html), [PLB 809 (2020) 135710](https://doi.org/10.1016/j.physletb.2020.135710) (2020-10-10), [arXiv:2005.01173](https://arxiv.org/abs/2005.01173) (2020-05-04).
* 988 $−$ “Measurement of CKM matrix elements in single top quark $t$-channel production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-012/index.html), [PLB 808 (2020) 135609](https://doi.org/10.1016/j.physletb.2020.135609) (2020-09-10), [arXiv:2004.12181](https://arxiv.org/abs/2004.12181) (2020-04-25).
* 987 $−$ “Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques"
[CMS-JME-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-18-002/index.html), [JINST 15 (2020) P06005](https://doi.org/10.1088/1748-0221/15/06/P06005) (2020-06-03), [arXiv:2004.08262](https://arxiv.org/abs/2004.08262) (2020-04-17).
* 986 $−$ “Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-010/index.html), [PLB 806 (2020) 135502](https://doi.org/10.1016/j.physletb.2020.135502) (2020-07-10), [arXiv:2004.05153](https://arxiv.org/abs/2004.05153) (2020-04-10).
* 985 $−$ “Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV"
[CMS-HIN-18-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-018/index.html), [JHEP 07 (2020) 115](https://doi.org/10.1007/JHEP07%282020%29115) (2020-07-17), [arXiv:2004.00602](https://arxiv.org/abs/2004.00602) (2020-04-01).
* 984 $−$ “The production of isolated photons in PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-18-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-016/index.html), [JHEP 07 (2020) 116](https://doi.org/10.1007/JHEP07%282020%29116) (2020-07-17), [arXiv:2003.12797](https://arxiv.org/abs/2003.12797) (2020-03-28).
* 983 $−$ “Measurements of $t‾H$ production and the CP structure of the Yukawa interaction between the Higgs boson and top quark in the diphoton decay channel"
[CMS-HIG-19-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-013/index.html), [PRL 125 (2020) 061801](https://doi.org/10.1103/PhysRevLett.125.061801) (2020-08-06), [arXiv:2003.10866](https://arxiv.org/abs/2003.10866) (2020-03-25).
* 982 $−$ “Measurement of the cross section for $t‾$ production with additional jets and b jets in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-002/index.html), [JHEP 07 (2020) 125](https://doi.org/10.1007/JHEP07%282020%29125) (2020-07-20), [arXiv:2003.06467](https://arxiv.org/abs/2003.06467) (2020-03-14).
* 981 $−$ “Study of central exclusive $π^{+}π^{−}$ production in proton-proton collisions at $\sqrt{s}=$ 5.02 and 13 TeV"
[CMS-FSQ-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-006/index.html), [EPJC 80 (2020) 718](https://doi.org/10.1140/epjc/s10052-020-8166-5) (2020-08-10), [arXiv:2003.02811](https://arxiv.org/abs/2003.02811) (2020-03-05).
* 980 $−$ “Pileup mitigation at CMS in 13 TeV data"
[CMS-JME-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-18-001/index.html), [JINST 15 (2020) P09018](https://doi.org/10.1088/1748-0221/15/09/P09018) (2020-09-15), [arXiv:2003.00503](https://arxiv.org/abs/2003.00503) (2020-03-01).
* 979 $−$ “Measurement of single-diffractive dijet production in proton-proton collisions at $\sqrt{s}=$ 8 TeV with the CMS and TOTEM experiments"
[CMS-FSQ-12-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-033/index.html), [EPJC 80 (2020) 1164](https://doi.org/10.1140/epjc/s10052-020-08562-y) (2020-12-17), [arXiv:2002.12146](https://arxiv.org/abs/2002.12146) (2020-02-27).
* 978 $−$ “Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV and constraints on anomalous quartic couplings"
[CMS-SMP-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-007/index.html), [JHEP 06 (2020) 076](https://doi.org/10.1007/JHEP06%282020%29076) (2020-06-10), [arXiv:2002.09902](https://arxiv.org/abs/2002.09902) (2020-02-23).
* 977 $−$ “A measurement of the Higgs boson mass in the diphoton decay channel"
[CMS-HIG-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-19-004/index.html), [PLB 805 (2020) 135425](https://doi.org/10.1016/j.physletb.2020.135425) (2020-06-10), [arXiv:2002.06398](https://arxiv.org/abs/2002.06398) (2020-02-15).
* 976 $−$ “Measurement of the $Υ\left(1S\right)$ pair production cross section and search for resonances decaying to $Υ\left(1S\right)μ^{+}μ^{−}$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-002/index.html), [PLB 808 (2020) 135578](https://doi.org/10.1016/j.physletb.2020.135578) (2020-09-10), [arXiv:2002.06393](https://arxiv.org/abs/2002.06393) (2020-02-15).
* 975 $−$ “Search for physics beyond the standard model in events with jets and two same-sign or at least three charged leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-008/index.html), [EPJC 80 (2020) 752](https://doi.org/10.1140/epjc/s10052-020-8168-3) (2020-08-18), [arXiv:2001.10086](https://arxiv.org/abs/2001.10086) (2020-01-27).
* 974 $−$ “Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-015/index.html), [JHEP 07 (2020) 126](https://doi.org/10.1007/JHEP07%282020%29126) (2020-07-20), [arXiv:2001.07763](https://arxiv.org/abs/2001.07763) (2020-01-21).
* 973 $−$ “Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-19-004/index.html), [PRD 102 (2020) 032007](https://doi.org/10.1103/PhysRevD.102.032007) (2020-08-20), [arXiv:2001.06899](https://arxiv.org/abs/2001.06899) (2020-01-19).
* 972 $−$ “Measurements of dose-rate effects in the radiation damage of plastic scintillator tiles using silicon photomultipliers"
[CMS-PRF-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-18-003/index.html), [JINST 15 (2020) P06009](https://doi.org/10.1088/1748-0221/15/06/P06009) (2020-06-08), [arXiv:2001.06553](https://arxiv.org/abs/2001.06553) (2020-01-18).
* 971 $−$ “Study of excited $Λ\_{b}^{0}$ states decaying to $Λ\_{b}^{0}π^{+}π^{−}$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-19-003/index.html), [PLB 803 (2020) 135345](https://doi.org/10.1016/j.physletb.2020.135345) (2020-04-10), [arXiv:2001.06533](https://arxiv.org/abs/2001.06533) (2020-01-18).
* 970 $−$ “Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-013/index.html), [JHEP 05 (2020) 052](https://doi.org/10.1007/JHEP05%282020%29052) (2020-05-12), [arXiv:2001.04521](https://arxiv.org/abs/2001.04521) (2020-01-13).
* 969 $−$ “A deep neural network to search for new long-lived particles decaying to jets"
[CMS-EXO-19-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-011/index.html), [MLST 1 (2020) 035012](https://doi.org/10.1088/2632-2153/ab9023) (2020-08-18), [arXiv:1912.12238](https://arxiv.org/abs/1912.12238) (2019-12-27).
* 968 $−$ “Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-15-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-018/index.html), [JHEP 06 (2020) 146](https://doi.org/10.1007/JHEP06%282020%29146) (2020-06-24), [arXiv:1912.09540](https://arxiv.org/abs/1912.09540) (2019-12-19).
* 967 $−$ “Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment"
[CMS-SUS-19-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-009/index.html), [JHEP 05 (2020) 032](https://doi.org/10.1007/JHEP05%282020%29032) (2020-05-08), [arXiv:1912.08887](https://arxiv.org/abs/1912.08887) (2019-12-18).
* 966 $−$ “Measurement of the $χ\_{c1}$ and $χ\_{c2}$ polarizations in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-001/index.html), [PRL 124 (2020) 162002](https://doi.org/10.1103/PhysRevLett.124.162002) (2020-04-25), [arXiv:1912.07706](https://arxiv.org/abs/1912.07706) (2019-12-16).
* 965 $−$ “A deep neural network for simultaneous estimation of b jet energy and resolution"
[CMS-HIG-18-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-027/index.html), [CSBS 4 (2020) 10](https://doi.org/10.1007/s41781-020-00041-z) (2020-10-30), [arXiv:1912.06046](https://arxiv.org/abs/1912.06046) (2019-12-12).
* 964 $−$ “Search for a narrow resonance lighter than 200 GeV decaying to a pair of muons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-018/index.html), [PRL 124 (2020) 131802](https://doi.org/10.1103/PhysRevLett.124.131802) (2020-04-04), [arXiv:1912.04776](https://arxiv.org/abs/1912.04776) (2019-12-10).
* 963 $−$ “Determination of the strong coupling constant $α\_{S}\left(m\_{Z}\right)$ from measurements of inclusive $W^{\pm }$ and $Z$ boson production cross sections in proton-proton collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-SMP-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-005/index.html), [JHEP 06 (2020) 018](https://doi.org/10.1007/JHEP06%282020%29018) (2020-06-01), [arXiv:1912.04387](https://arxiv.org/abs/1912.04387) (2019-12-09).
* 962 $−$ “Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-MUO-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-17-001/index.html), [JINST 15 (2020) P02027](https://doi.org/10.1088/1748-0221/15/02/P02027) (2020-02-28), [arXiv:1912.03516](https://arxiv.org/abs/1912.03516) (2019-12-07).
* 961 $−$ “A search for the standard model Higgs boson decaying to charm quarks"
[CMS-HIG-18-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-031/index.html), [JHEP 03 (2020) 131](https://doi.org/10.1007/JHEP03%282020%29131) (2020-03-24), [arXiv:1912.01662](https://arxiv.org/abs/1912.01662) (2019-12-03).
* 960 $−$ “Search for a heavy Higgs boson decaying to a pair of W bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-033/index.html), [JHEP 03 (2020) 034](https://doi.org/10.1007/JHEP03%282020%29034) (2020-03-06), [arXiv:1912.01594](https://arxiv.org/abs/1912.01594) (2019-12-03).
* 959 $−$ “Measurement of the top quark pair production cross section in dilepton final states containing one $τ$ lepton in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-005/index.html), [JHEP 02 (2020) 191](https://doi.org/10.1007/JHEP02%282020%29191) (2020-02-28), [arXiv:1911.13204](https://arxiv.org/abs/1911.13204) (2019-11-29).
* 958 $−$ “Search for lepton flavour violating decays of a neutral heavy Higgs boson to $μτ$ and e$τ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-017/index.html), [JHEP 03 (2020) 103](https://doi.org/10.1007/JHEP03%282020%29103) (2020-03-18), [arXiv:1911.10267](https://arxiv.org/abs/1911.10267) (2019-11-23).
* 957 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}=$ 13 TeV with 137 fb$​^{−1}$ in final states with a single lepton using the sum of masses of large-radius jets"
[CMS-SUS-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-007/index.html), [PRD 1010 (2020) 052010](https://doi.org/10.1103/PhysRevD.101.052010) (2020-03-25), [arXiv:1911.07558](https://arxiv.org/abs/1911.07558) (2019-11-18).
* 956 $−$ “Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-002/index.html), [JHEP 03 (2020) 051](https://doi.org/10.1007/JHEP03%282020%29051) (2020-03-10), [arXiv:1911.04968](https://arxiv.org/abs/1911.04968) (2019-11-12).
* 955 $−$ “Search for high mass dijet resonances with a new background prediction method in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-012/index.html), [JHEP 05 (2020) 033](https://doi.org/10.1007/JHEP05%282020%29033) (2020-05-08), [arXiv:1911.03947](https://arxiv.org/abs/1911.03947) (2019-11-10).
* 954 $−$ “Measurement of the jet mass distribution and top quark mass in hadronic decays of boosted top quarks in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-005/index.html), [PRL 124 (2020) 202001](https://doi.org/10.1103/PhysRevLett.124.202001) (2020-05-22), [arXiv:1911.03800](https://arxiv.org/abs/1911.03800) (2019-11-09).
* 953 $−$ “Observation of the $Λ\_{b}^{0}\rightarrow J/ψΛϕ$ decay in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-19-002/index.html), [PLB 802 (2020) 135203](https://doi.org/10.1016/j.physletb.2020.135203) (2020-03-10), [arXiv:1911.03789](https://arxiv.org/abs/1911.03789) (2019-11-09).
* 952 $−$ “Search for new neutral Higgs bosons through the $H\rightarrow ZA\rightarrow ℓ^{+}ℓ^{−}b‾$ process in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-012/index.html), [JHEP 03 (2020) 055](https://doi.org/10.1007/JHEP03%282020%29055) (2020-03-10), [arXiv:1911.03781](https://arxiv.org/abs/1911.03781) (2019-11-09).
* 951 $−$ “Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-004/index.html), [PLB 805 (2020) 135448](https://doi.org/10.1016/j.physletb.2020.135448) (2020-06-10), [arXiv:1911.03761](https://arxiv.org/abs/1911.03761) (2019-11-09).
* 950 $−$ “Studies of charm quark diffusion inside jets using PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-007/index.html), [PRL 125 (2020) 102001](https://doi.org/10.1103/PhysRevLett.125.102001) (2020-09-03), [arXiv:1911.01461](https://arxiv.org/abs/1911.01461) (2019-11-04).
* 949 $−$ “Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-003/index.html), [JHEP 02 (2020) 015](https://doi.org/10.1007/JHEP02%282020%29015) (2020-02-03), [arXiv:1910.12932](https://arxiv.org/abs/1910.12932) (2019-10-28).
* 948 $−$ “Measurement of properties of $B\_{s}^{0}\rightarrow μ^{+}μ^{−}$ decays and search forf $B^{0}\rightarrow μ^{+}μ^{−}$ with the CMS experiment"
[CMS-BPH-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-004/index.html), [JHEP 04 (2020) 188](https://doi.org/10.1007/JHEP04%282020%29188) (2020-04-28), [arXiv:1910.12127](https://arxiv.org/abs/1910.12127) (2019-10-26).
* 947 $−$ “Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-023/index.html), [JHEP 03 (2020) 065](https://doi.org/10.1007/JHEP03%282020%29065) (2020-03-11), [arXiv:1910.11634](https://arxiv.org/abs/1910.11634) (2019-10-25).
* 946 $−$ “Bose-Einstein correlations of charged hadrons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-009/index.html), [JHEP 03 (2020) 014](https://doi.org/10.1007/JHEP03%282020%29014) (2020-03-03), [arXiv:1910.08815](https://arxiv.org/abs/1910.08815) (2019-10-20).
* 945 $−$ “Mixed higher-order anisotropic flow and nonlinear response coefficients of charged particles in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 2.76 and 5.02 TeV"
[CMS-HIN-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-005/index.html), [EPJC 80 (2020) 534](https://doi.org/10.1140/epjc/s10052-020-7834-9) (2020-06-13), [arXiv:1910.08789](https://arxiv.org/abs/1910.08789) (2019-10-19).
* 944 $−$ “Strange hadron production in pp and pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-013/index.html), [PRC 101 (2020) 064906](https://doi.org/10.1103/PhysRevC.101.064906) (2020-06-23), [arXiv:1910.04812](https://arxiv.org/abs/1910.04812) (2019-10-10).
* 943 $−$ “Study of $J/ψ$ meson production from jet fragmentation in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-003/index.html), [PLB 804 (2020) 135409](https://doi.org/10.1016/j.physletb.2020.135409) (2020-05-10), [arXiv:1910.01686](https://arxiv.org/abs/1910.01686) (2019-10-03).
* 942 $−$ “Search for supersymmetry with a compressed mass spectrum in events with a soft $τ$ lepton, a highly energetic jet, and large missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-002/index.html), [PRL 124 (2020) 041803](https://doi.org/10.1103/PhysRevLett.124.041803) (2020-01-30), [arXiv:1910.01185](https://arxiv.org/abs/1910.01185) (2019-10-02).
* 941 $−$ “Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s}=$ 13 TeV"
[CMS-PRF-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-18-001/index.html), [JINST 15 (2020) P05002](https://doi.org/10.1088/1748-0221/15/05/P05002) (2020-05-05), [arXiv:1910.00079](https://arxiv.org/abs/1910.00079) (2019-09-30).
* 940 $−$ “Running of the top quark mass from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-19-007/index.html), [PLB 803 (2020) 135263](https://doi.org/10.1016/j.physletb.2020.135263) (2020-04-10), [arXiv:1909.09193](https://arxiv.org/abs/1909.09193) (2019-09-19).
* 939 $−$ “Evidence for WW production from double-parton interactions in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-015/index.html), [EPJC 80 (2020) 41](https://doi.org/10.1140/epjc/s10052-019-7541-6) (2020-01-17), [arXiv:1909.06265](https://arxiv.org/abs/1909.06265) (2019-09-13).
* 938 $−$ “Search for long-lived particles using delayed photons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-005/index.html), [PRD 100 (2019) 112003](https://doi.org/10.1103/PhysRevD.100.112003) (2019-12-09), [arXiv:1909.06166](https://arxiv.org/abs/1909.06166) (2019-09-13).
* 937 $−$ “Measurement of the $t‾b‾$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-011/index.html), [PLB 803 (2020) 135285](https://doi.org/10.1016/j.physletb.2020.135285) (2020-04-10), [arXiv:1909.05306](https://arxiv.org/abs/1909.05306) (2019-09-11).
* 936 $−$ “Search for electroweak production of a vector-like T quark using fully hadronic final states"
[CMS-B2G-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-003/index.html), [JHEP 01 (2020) 036](https://doi.org/10.1007/JHEP01%282020%29036) (2020-01-08), [arXiv:1909.04721](https://arxiv.org/abs/1909.04721) (2019-09-10).
* 935 $−$ “Measurements of differential Z boson production cross sections in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-010/index.html), [JHEP 12 (2019) 061](https://doi.org/10.1007/JHEP12%282019%29061) (2019-12-09), [arXiv:1909.04133](https://arxiv.org/abs/1909.04133) (2019-09-09).
* 934 $−$ “Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-012/index.html), [PRD 100 (2019) 112007](https://doi.org/10.1103/PhysRevD.100.112007) (2019-12-22), [arXiv:1909.04114](https://arxiv.org/abs/1909.04114) (2019-09-09).
* 933 $−$ “Searches for physics beyond the standard model with the $M\_{T2}$ variable in hadronic final states with and without disappearing tracks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-19-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-005/index.html), [EPJC 80 (2020) 3](https://doi.org/10.1140/epjc/s10052-019-7493-x) (2020-01-03), [arXiv:1909.03460](https://arxiv.org/abs/1909.03460) (2019-09-08).
* 932 $−$ “Search for a charged Higgs boson decaying into top and bottom quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV in events with electrons or muons"
[CMS-HIG-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-004/index.html), [JHEP 01 (2020) 096](https://doi.org/10.1007/JHEP01%282020%29096) (2020-01-16), [arXiv:1908.09206](https://arxiv.org/abs/1908.09206) (2019-08-25).
* 931 $−$ “Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-007/index.html), [JHEP 11 (2019) 109](https://doi.org/10.1007/JHEP11%282019%29109) (2019-12-04), [arXiv:1908.08500](https://arxiv.org/abs/1908.08500) (2019-08-23).
* 930 $−$ “Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-003/index.html), [EPJC 80 (2020) 75](https://doi.org/10.1140/epjc/s10052-019-7593-7) (2020-01-31), [arXiv:1908.06463](https://arxiv.org/abs/1908.06463) (2019-08-18).
* 929 $−$ “Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum"
[CMS-SUS-19-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-19-006/index.html), [JHEP 10 (2019) 244](https://doi.org/10.1007/JHEP10%282019%29244) (2019-10-25), [arXiv:1908.04722](https://arxiv.org/abs/1908.04722) (2019-08-13).
* 928 $−$ “Search for dark photons in decays of Higgs bosons produced in association with Z bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-007/index.html), [JHEP 10 (2019) 139](https://doi.org/10.1007/JHEP10%282019%29139) (2019-10-10), [arXiv:1908.02699](https://arxiv.org/abs/1908.02699) (2019-08-07).
* 927 $−$ “Measurement of the average very forward energy as a function of the track multiplicity at central pseudorapidities in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-18-001/index.html), [EPJC 79 (2019) 893](https://doi.org/10.1140/epjc/s10052-019-7402-3) (2019-11-05), [arXiv:1908.01750](https://arxiv.org/abs/1908.01750) (2019-08-05).
* 926 $−$ “Search for dark matter particles produced in association with a Higgs boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-011/index.html), [JHEP 03 (2020) 025](https://doi.org/10.1007/JHEP03%282020%29025) (2020-03-04), [arXiv:1908.01713](https://arxiv.org/abs/1908.01713) (2019-08-05).
* 925 $−$ “Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-027/index.html), [JHEP 04 (2020) 171](https://doi.org/10.1007/JHEP04%282020%29171) (2020-04-27), [arXiv:1908.01115](https://arxiv.org/abs/1908.01115) (2019-08-03).
* 924 $−$ “Search for direct pair production of supersymmetric partners to the $τ$ lepton in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-006/index.html), [EPJC 80 (2020) 189](https://doi.org/10.1140/epjc/s10052-020-7739-7) (2020-03-02), [arXiv:1907.13179](https://arxiv.org/abs/1907.13179) (2019-07-30).
* 923 $−$ “Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-009/index.html), [JHEP 03 (2020) 056](https://doi.org/10.1007/JHEP03%282020%29056) (2020-03-10), [arXiv:1907.11270](https://arxiv.org/abs/1907.11270) (2019-07-25).
* 922 $−$ “Search for anomalous triple gauge couplings in WW and WZ production in lepton + jet events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-008/index.html), [JHEP 12 (2019) 062](https://doi.org/10.1007/JHEP12%282019%29062) (2019-12-09), [arXiv:1907.08354](https://arxiv.org/abs/1907.08354) (2019-07-19).
* 921 $−$ “Measurement of differential cross sections and charge ratios for $t$-channel single top quark production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-023/index.html), [EPJC 80 (2020) 370](https://doi.org/10.1140/epjc/s10052-020-7858-1) (2020-05-06), [arXiv:1907.08330](https://arxiv.org/abs/1907.08330) (2019-07-19).
* 920 $−$ “Measurements of triple-differential cross sections for inclusive isolated-photon+jet events in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-016/index.html), [EPJC 79 (2019) 969](https://doi.org/10.1140/epjc/s10052-019-7451-7) (2019-11-25), [arXiv:1907.08155](https://arxiv.org/abs/1907.08155) (2019-07-18).
* 919 $−$ “Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-006/index.html), [PLB 800 (2019) 135087](https://doi.org/10.1016/j.physletb.2019.135087) (2020-01-10), [arXiv:1907.07235](https://arxiv.org/abs/1907.07235) (2019-07-16).
* 918 $−$ “Search for physics beyond the standard model in events with overlapping photons and jets"
[CMS-B2G-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-007/index.html), [PRL 123 (2019) 241801](https://doi.org/10.1103/PhysRevLett.123.241801) (2019-12-11), [arXiv:1907.06275](https://arxiv.org/abs/1907.06275) (2019-07-14).
* 917 $−$ “Study of the $B^{+}\rightarrow J/ψ‾p$ decay in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-005/index.html), [JHEP 12 (2019) 100](https://doi.org/10.1007/JHEP12%282019%29100) (2019-12-12), [arXiv:1907.05461](https://arxiv.org/abs/1907.05461) (2019-07-11).
* 916 $−$ “Measurement of the top quark polarization and $t‾$ spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-006/index.html), [PRD 100 (2019) 072002](https://doi.org/10.1103/PhysRevD.100.072002) (2019-10-09), [arXiv:1907.03729](https://arxiv.org/abs/1907.03729) (2019-07-08).
* 915 $−$ “Search for MSSM Higgs bosons decaying to $μ^{+}μ^{−}$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-010/index.html), [PLB 798 (2019) 134992](https://doi.org/10.1016/j.physletb.2019.134992) (2019-11-10), [arXiv:1907.03152](https://arxiv.org/abs/1907.03152) (2019-07-06).
* 914 $−$ “Measurement of the top quark Yukawa coupling from $t‾$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-004/index.html), [PRD 100 (2019) 072007](https://doi.org/10.1103/PhysRevD.100.072007) (2019-10-18), [arXiv:1907.01590](https://arxiv.org/abs/1907.01590) (2019-07-02).
* 913 $−$ “Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-005/index.html), [PLB 801 (2020) 135183](https://doi.org/10.1016/j.physletb.2019.135183) (2020-02-10), [arXiv:1907.00857](https://arxiv.org/abs/1907.00857) (2019-07-01).
* 912 $−$ “Search for pair production of vector-like quarks in the fully hadronic final state"
[CMS-B2G-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-005/index.html), [PRD 100 (2019) 072001](https://doi.org/10.1103/PhysRevD.100.072001) (2019-10-09), [arXiv:1906.11903](https://arxiv.org/abs/1906.11903) (2019-06-28).
* 911 $−$ “Search for long-lived particles using nonprompt jets and missing transverse momentum with proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-19-001/index.html), [PLB 797 (2019) 134876](https://doi.org/10.1016/j.physletb.2019.134876) (2019-10-10), [arXiv:1906.06441](https://arxiv.org/abs/1906.06441) (2019-06-17).
* 910 $−$ “A multi-dimensional search for new heavy resonances decaying to boosted WW, WZ, or ZZ boson pairs in the dijet final state at 13 TeV"
[CMS-B2G-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-002/index.html), [EPJC 80 (2020) 237](https://doi.org/10.1140/epjc/s10052-020-7773-5) (2020-03-12), [arXiv:1906.05977](https://arxiv.org/abs/1906.05977) (2019-06-14).
* 909 $−$ “Production of $Λ\_{c}^{+}$ baryons in proton-proton and lead-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-009/index.html), [PLB 803 (2020) 135328](https://doi.org/10.1016/j.physletb.2020.135328) (2020-04-10), [arXiv:1906.03322](https://arxiv.org/abs/1906.03322) (2019-06-07).
* 908 $−$ “Search for the production of four top quarks in the single-lepton and opposite-sign dilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-019/index.html), [JHEP 11 (2019) 082](https://doi.org/10.1007/JHEP11%282019%29082) (2019-11-14), [arXiv:1906.02805](https://arxiv.org/abs/1906.02805) (2019-06-07).
* 907 $−$ “Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons"
[CMS-B2G-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-006/index.html), [PLB 798 (2019) 134952](https://doi.org/10.1016/j.physletb.2019.134952) (2019-11-10), [arXiv:1906.00057](https://arxiv.org/abs/1906.00057) (2019-05-31).
* 906 $−$ “Search for supersymmetry with a compressed mass spectrum in the vector boson fusion topology with 1-lepton and 0-lepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-007/index.html), [JHEP 08 (2019) 150](https://doi.org/10.1007/JHEP08%282019%29150) (2019-08-27), [arXiv:1905.13059](https://arxiv.org/abs/1905.13059) (2019-05-30).
* 905 $−$ “Search for vector-like leptons in multilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-005/index.html), [PRD 100 (2019) 052003](https://doi.org/10.1103/PhysRevD.100.052003) (2019-09-07), [arXiv:1905.10853](https://arxiv.org/abs/1905.10853) (2019-05-27).
* 904 $−$ “Search for Higgs and Z boson decays to $J/ψ$ or $Υ$ pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-025/index.html), [PLB 797 (2019) 134811](https://doi.org/10.1016/j.physletb.2019.134811) (2019-10-10), [arXiv:1905.10408](https://arxiv.org/abs/1905.10408) (2019-05-24).
* 903 $−$ “Search for low-mass quark-antiquark resonances produced in association with a photon at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-027/index.html), [PRL 123 (2019) 231803](https://doi.org/10.1103/PhysRevLett.123.231803) (2019-12-04), [arXiv:1905.10331](https://arxiv.org/abs/1905.10331) (2019-05-24).
* 902 $−$ “Correlations of azimuthal anisotropy Fourier harmonics in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-18-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-015/index.html), [PRC 103 (2021) 014902](https://doi.org/10.1103/PhysRevC.103.014902) (2021-01-15), [arXiv:1905.09935](https://arxiv.org/abs/1905.09935) (2019-05-23).
* 901 $−$ “Search for a light charged Higgs boson decaying to a W boson and a CP-odd Higgs boson in final states with $eμμ$ or $μμμ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-020/index.html), [PRL 123 (2019) 131802](https://doi.org/10.1103/PhysRevLett.123.131802) (2019-09-24), [arXiv:1905.07453](https://arxiv.org/abs/1905.07453) (2019-05-18).
* 900 $−$ “Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV"
[CMS-SMP-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-006/index.html), [PLB 798 (2019) 134985](https://doi.org/10.1016/j.physletb.2019.134985) (2019-11-10), [arXiv:1905.07445](https://arxiv.org/abs/1905.07445) (2019-05-17).
* 899 $−$ “Search for the production of $W^{\pm }W^{\pm }W^{\mp }$ events at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-013/index.html), [PRD 100 (2019) 012004](https://doi.org/10.1103/PhysRevD.100.012004) (2019-07-27), [arXiv:1905.04246](https://arxiv.org/abs/1905.04246) (2019-05-10).
* 898 $−$ “Observation of nuclear modifications in $W^{\pm }$ boson production in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-007/index.html), [PLB 800 (2020) 135048](https://doi.org/10.1016/j.physletb.2019.135048) (2020-01-10), [arXiv:1905.01486](https://arxiv.org/abs/1905.01486) (2019-05-04).
* 897 $−$ “Multiparticle correlation studies in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ = 8.16 TeV"
[CMS-HIN-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-004/index.html), [PRC 101 (2020) 014912](https://doi.org/10.1103/PhysRevC.101.014912) (2020-01-24), [arXiv:1904.11519](https://arxiv.org/abs/1904.11519) (2019-04-25).
* 896 $−$ “Measurement of $t‾$ normalised multi-differential cross sections in pp collisions at $\sqrt{s}=$ 13 TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions"
[CMS-TOP-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-004/index.html), [EPJC 80 (2020) 658](https://doi.org/10.1140/epjc/s10052-020-7917-7) (2020-07-22), [arXiv:1904.05237](https://arxiv.org/abs/1904.05237) (2019-04-10).
* 895 $−$ “Search for resonances decaying to a pair of Higgs bosons in the $b‾q‾′ℓν$ final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-008/index.html), [JHEP 10 (2019) 125](https://doi.org/10.1007/JHEP10%282019%29125) (2019-10-09), [arXiv:1904.04193](https://arxiv.org/abs/1904.04193) (2019-04-08).
* 894 $−$ “Extraction and validation of a new set of CMS PYTHIA-8 tunes from underlying-event measurements"
[CMS-GEN-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-17-001/index.html), [EPJC 80 (2020) 4](https://doi.org/10.1140/epjc/s10052-019-7499-4) (2020-01-03), [arXiv:1903.12179](https://arxiv.org/abs/1903.12179) (2019-03-28).
* 893 $−$ “Search for new physics in top quark production in dilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-020/index.html), [EPJC 79 (2019) 886](https://doi.org/10.1140/epjc/s10052-019-7387-y) (2019-11-01), [arXiv:1903.11144](https://arxiv.org/abs/1903.11144) (2019-03-26).
* 892 $−$ “Search for a low-mass $τ^{−}τ^{+}$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-014/index.html), [JHEP 05 (2019) 210](https://doi.org/10.1007/JHEP05%282019%29210) (2019-05-31), [arXiv:1903.10228](https://arxiv.org/abs/1903.10228) (2019-03-25).
* 891 $−$ “Search for supersymmetry in final states with photons and missing transverse momentum in proton-proton collisions at 13 TeV"
[CMS-SUS-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-011/index.html), [JHEP 06 (2019) 143](https://doi.org/10.1007/JHEP06%282019%29143) (2019-06-28), [arXiv:1903.07070](https://arxiv.org/abs/1903.07070) (2019-03-17).
* 890 $−$ “Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to $τ$ lepton pairs"
[CMS-HIG-17-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-034/index.html), [PRD 100 (2019) 112002](https://doi.org/10.1103/PhysRevD.100.112002) (2019-12-05), [arXiv:1903.06973](https://arxiv.org/abs/1903.06973) (2019-03-16).
* 889 $−$ “Performance of missing transverse momentum reconstruction in proton-proton collisions at $\sqrt{s}=$ 13 TeV using the CMS detector"
[CMS-JME-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-17-001/index.html), [JINST 14 (2019) P07004](https://doi.org/10.1088/1748-0221/14/07/P07004) (2019-07-04), [arXiv:1903.06078](https://arxiv.org/abs/1903.06078) (2019-03-14).
* 888 $−$ “Search for charged Higgs bosons in the $H^{\pm }\rightarrow τ^{\pm }ν\_{τ}$ decay channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-014/index.html), [JHEP 07 (2019) 142](https://doi.org/10.1007/JHEP07%282019%29142) (2019-07-24), [arXiv:1903.04560](https://arxiv.org/abs/1903.04560) (2019-03-11).
* 887 $−$ “Measurement of electroweak production of a W boson in association with two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-011/index.html), [EPJC 80 (2020) 43](https://doi.org/10.1140/epjc/s10052-019-7585-7) (2020-01-18), [arXiv:1903.04040](https://arxiv.org/abs/1903.04040) (2019-03-10).
* 886 $−$ “An embedding technique to determine $ττ$ backgrounds in proton-proton collision data"
[CMS-TAU-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-18-001/index.html), [JINST 14 (2019) P06032](https://doi.org/10.1088/1748-0221/14/06/P06032) (2019-06-21), [arXiv:1903.01216](https://arxiv.org/abs/1903.01216) (2019-03-03).
* 885 $−$ “Search for a heavy pseudoscalar boson decaying to a Z and a Higgs boson at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-005/index.html), [EPJC 79 (2019) 564](https://doi.org/10.1140/epjc/s10052-019-7058-z) (2019-07-03), [arXiv:1903.00941](https://arxiv.org/abs/1903.00941) (2019-03-03).
* 884 $−$ “Combinations of single-top-quark production cross-section measurements and $\left|f\_{LV}V\_{tb}\right|$ determinations at $\sqrt{s}=$ 7 and 8 TeV with the ATLAS and CMS experiments"
[CMS-TOP-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-006/index.html), [JHEP 05 (2019) 088](https://doi.org/10.1007/JHEP05%282019%29088) (2019-05-16), [arXiv:1902.07158](https://arxiv.org/abs/1902.07158) (2019-02-15).
* 883 $−$ “Azimuthal separation in nearly back-to-back jet topologies in inclusive 2- and 3-jet events in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-009/index.html), [EPJC 79 (2019) 773](https://doi.org/10.1140/epjc/s10052-019-7276-4) (2019-09-18), [arXiv:1902.04374](https://arxiv.org/abs/1902.04374) (2019-02-12).
* 882 $−$ “Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.44 TeV"
[CMS-HIN-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-006/index.html), [PLB 799 (2019) 135049](https://doi.org/10.1016/j.physletb.2019.135049) (2019-12-10), [arXiv:1902.03603](https://arxiv.org/abs/1902.03603) (2019-02-10).
* 881 $−$ “Measurement of exclusive $ρ\left(770\right)^{0}$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-FSQ-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-007/index.html), [EPJC 79 (2019) 702](https://doi.org/10.1140/epjc/s10052-019-7202-9) (2019-08-21), [arXiv:1902.01339](https://arxiv.org/abs/1902.01339) (2019-02-05).
* 880 $−$ “Observation of two excited $B\_{c}^{+}$ states and measurement of the $B\_{c}^{+}\left(2S\right)$ mass in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-18-007/index.html), [PRL 122 (2019) 132001](https://doi.org/10.1103/PhysRevLett.122.132001) (2019-04-03), [arXiv:1902.00571](https://arxiv.org/abs/1902.00571) (2019-02-01).
* 879 $−$ “Search for W boson decays to three charged pions"
[CMS-SMP-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-009/index.html), [PRL 122 (2019) 151802](https://doi.org/10.1103/PhysRevLett.122.151802) (2019-04-19), [arXiv:1901.11201](https://arxiv.org/abs/1901.11201) (2019-01-30).
* 878 $−$ “Charged-particle angular correlations in XeXe collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.44 TeV"
[CMS-HIN-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-001/index.html), [PRC 100 (2019) 044902](https://doi.org/10.1103/PhysRevC.100.044902) (2019-10-04), [arXiv:1901.07997](https://arxiv.org/abs/1901.07997) (2019-01-23).
* 877 $−$ “Search for supersymmetry in events with a photon, jets, b-jets, and missing transverse momentum in proton-proton collisions at 13 TeV"
[CMS-SUS-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-002/index.html), [EPJC 79 (2019) 444](https://doi.org/10.1140/epjc/s10052-019-6926-x) (2019-05-25), [arXiv:1901.06726](https://arxiv.org/abs/1901.06726) (2019-01-20).
* 876 $−$ “Measurement of electroweak WZ boson production and search for new physics in WZ + two jets events in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-001/index.html), [PLB 795 (2019) 281](https://doi.org/10.1016/j.physletb.2019.05.042) (2019-08-10), [arXiv:1901.04060](https://arxiv.org/abs/1901.04060) (2019-01-14).
* 875 $−$ “Measurements of the $pp\rightarrow WZ$ inclusive and differential production cross section and constraints on charged anomalous triple gauge couplings at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-18-002/index.html), [JHEP 04 (2019) 122](https://doi.org/10.1007/JHEP04%282019%29122) (2019-04-18), [arXiv:1901.03428](https://arxiv.org/abs/1901.03428) (2019-01-10).
* 874 $−$ “Search for dark matter produced in association with a single top quark or a top quark pair in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-010/index.html), [JHEP 03 (2019) 141](https://doi.org/10.1007/JHEP03%282019%29141) (2019-03-25), [arXiv:1901.01553](https://arxiv.org/abs/1901.01553) (2019-01-06).
* 873 $−$ “Search for the pair production of light top squarks in the $e^{\pm }μ^{\mp }$ final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-003/index.html), [JHEP 03 (2019) 101](https://doi.org/10.1007/JHEP03%282019%29101) (2019-03-18), [arXiv:1901.01288](https://arxiv.org/abs/1901.01288) (2019-01-04).
* 872 $−$ “Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state"
[CMS-HIG-18-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-002/index.html), [PRD 99 (2019) 112003](https://doi.org/10.1103/PhysRevD.99.112003) (2019-06-12), [arXiv:1901.00174](https://arxiv.org/abs/1901.00174) (2019-01-01).
* 871 $−$ “Measurement of the $t‾$ production cross section, the top quark mass, and the strong coupling constant using dilepton events in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-001/index.html), [EPJC 79 (2019) 368](https://doi.org/10.1140/epjc/s10052-019-6863-8) (2019-04-29), [arXiv:1812.10505](https://arxiv.org/abs/1812.10505) (2018-12-27).
* 870 $−$ “Measurement of the differential Drell-Yan cross section in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-001/index.html), [JHEP 12 (2019) 059](https://doi.org/10.1007/JHEP12%282019%29059) (2019-12-09), [arXiv:1812.10529](https://arxiv.org/abs/1812.10529) (2018-12-27).
* 869 $−$ “Measurement of the top quark mass in the all-jets final state at $\sqrt{s}=$ 13 TeV and combination with the lepton+jets channel"
[CMS-TOP-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-008/index.html), [EPJC 79 (2019) 313](https://doi.org/10.1140/epjc/s10052-019-6788-2) (2019-04-06), [arXiv:1812.10534](https://arxiv.org/abs/1812.10534) (2018-12-27).
* 868 $−$ “Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-025/index.html), [JHEP 04 (2019) 114](https://doi.org/10.1007/JHEP04%282019%29114) (2019-04-17), [arXiv:1812.10443](https://arxiv.org/abs/1812.10443) (2018-12-26).
* 867 $−$ “Measurement of the single top quark and antiquark production cross sections in the $t$ channel and their ratio in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-011/index.html), [PLB 800 (2019) 135042](https://doi.org/10.1016/j.physletb.2019.135042) (2020-01-10), [arXiv:1812.10514](https://arxiv.org/abs/1812.10514) (2018-12-27).
* 866 $−$ “Search for vector-like quarks in events with two oppositely charged leptons and jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-012/index.html), [EPJC 79 (2019) 364](https://doi.org/10.1140/epjc/s10052-019-6855-8) (2019-04-26), [arXiv:1812.09768](https://arxiv.org/abs/1812.09768) (2018-12-24).
* 865 $−$ “Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-028/index.html), [PLB 792 (2019) 369](https://doi.org/10.1016/j.physletb.2019.03.059) (2019-05-10), [arXiv:1812.06504](https://arxiv.org/abs/1812.06504) (2018-12-16).
* 864 $−$ “Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton+jets final state in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-015/index.html), [EPJC 79 (2019) 208](https://doi.org/10.1140/epjc/s10052-019-6688-5) (2019-03-07), [arXiv:1812.06489](https://arxiv.org/abs/1812.06489) (2018-12-16).
* 863 $−$ “Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=$ 13 TeV using razor variables and boosted object identification in zero and one lepton final states"
[CMS-SUS-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-017/index.html), [JHEP 03 (2019) 031](https://doi.org/10.1007/JHEP03%282019%29031) (2019-03-06), [arXiv:1812.06302](https://arxiv.org/abs/1812.06302) (2018-12-15).
* 862 $−$ “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two muons and two b quarks in pp collisions at 13 TeV"
[CMS-HIG-18-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-011/index.html), [PLB 795 (2019) 398](https://doi.org/10.1016/j.physletb.2019.06.021) (2019-08-10), [arXiv:1812.06359](https://arxiv.org/abs/1812.06359) (2018-12-15).
* 861 $−$ “Observation of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-18-008/index.html), [PRL 122 (2019) 132003](https://doi.org/10.1103/PhysRevLett.122.132003) (2019-04-06), [arXiv:1812.05900](https://arxiv.org/abs/1812.05900) (2018-12-14).
* 860 $−$ “Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-012/index.html), [JHEP 01 (2019) 154](https://doi.org/10.1007/JHEP01%282019%29154) (2019-01-18), [arXiv:1812.04066](https://arxiv.org/abs/1812.04066) (2018-12-10).
* 859 $−$ “Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-006/index.html), [EPJC 79 (2019) 391](https://doi.org/10.1140/epjc/s10052-019-6861-x) (2019-05-07), [arXiv:1812.04095](https://arxiv.org/abs/1812.04095) (2018-12-10).
* 858 $−$ “Measurement of inclusive very forward jet cross sections in proton-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-FSQ-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-17-001/index.html), [JHEP 05 (2019) 043](https://doi.org/10.1007/JHEP05%282019%29043) (2019-05-07), [arXiv:1812.01691](https://arxiv.org/abs/1812.01691) (2018-12-04).
* 857 $−$ “A search for pair production of new light bosons decaying into muons in proton-proton collisions at 13 TeV"
[CMS-HIG-18-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-003/index.html), [PLB 796 (2019) 131](https://doi.org/10.1016/j.physletb.2019.07.013) (2019-09-10), [arXiv:1812.00380](https://arxiv.org/abs/1812.00380) (2018-12-02).
* 856 $−$ “Measurement of associated production of a W boson and a charm quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-014/index.html), [EPJC 79 (2019) 269](https://doi.org/10.1140/epjc/s10052-019-6752-1) (2019-03-23), [arXiv:1811.10021](https://arxiv.org/abs/1811.10021) (2018-11-26).
* 855 $−$ “Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV"
[CMS-EXO-17-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-015/index.html), [PLB 795 (2019) 76](https://doi.org/10.1016/j.physletb.2019.05.046) (2019-08-10), [arXiv:1811.10151](https://arxiv.org/abs/1811.10151) (2018-11-26).
* 854 $−$ “Search for resonant production of second-generation sleptons with same-sign dimuon events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-008/index.html), [EPJC 79 (2019) 305](https://doi.org/10.1140/epjc/s10052-019-6800-x) (2019-04-04), [arXiv:1811.09760](https://arxiv.org/abs/1811.09760) (2018-11-24).
* 853 $−$ “Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-18-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-009/index.html), [PRD 99 (2019) 092005](https://doi.org/10.1103/PhysRevD.99.092005) (2019-05-21), [arXiv:1811.09696](https://arxiv.org/abs/1811.09696) (2018-11-23).
* 852 $−$ “Combination of searches for Higgs boson pair production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-030/index.html), [PRL 122 (2019) 121803](https://doi.org/10.1103/PhysRevLett.122.121803) (2019-03-30), [arXiv:1811.09689](https://arxiv.org/abs/1811.09689) (2018-11-23).
* 851 $−$ “Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=$ 8 and 13 TeV"
[CMS-HIG-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-013/index.html), [PLB 793 (2019) 320](https://doi.org/10.1016/j.physletb.2019.03.064) (2019-06-10), [arXiv:1811.08459](https://arxiv.org/abs/1811.08459) (2018-11-20).
* 850 $−$ “Search for long-lived particles decaying into displaced jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-007/index.html), [PRD 99 (2019) 032011](https://doi.org/10.1103/PhysRevD.99.032011) (2019-02-22), [arXiv:1811.07991](https://arxiv.org/abs/1811.07991) (2018-11-19).
* 849 $−$ “Search for a W’ boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state"
[CMS-B2G-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-18-001/index.html), [JHEP 03 (2019) 127](https://doi.org/10.1007/JHEP03%282019%29127) (2019-03-22), [arXiv:1811.07010](https://arxiv.org/abs/1811.07010) (2018-11-17).
* 848 $−$ “Search for dark matter produced in association with a Higgs boson decaying to a pair of bottom quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-050/index.html), [EPJC 79 (2019) 280](https://doi.org/10.1140/epjc/s10052-019-6730-7) (2019-03-27), [arXiv:1811.06562](https://arxiv.org/abs/1811.06562) (2018-11-16).
* 847 $−$ “Measurements of $t‾$ differential cross sections in proton-proton collisions at $\sqrt{s}=$ 13 TeV using events containing two leptons"
[CMS-TOP-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-014/index.html), [JHEP 02 (2019) 149](https://doi.org/10.1007/JHEP02%282019%29149) (2019-02-22), [arXiv:1811.06625](https://arxiv.org/abs/1811.06625) (2018-11-17).
* 846 $−$ “Search for excited leptons in $ℓℓγ$ final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-004/index.html), [JHEP 04 (2019) 015](https://doi.org/10.1007/JHEP04%282019%29015) (2019-04-02), [arXiv:1811.03052](https://arxiv.org/abs/1811.03052) (2018-11-07).
* 845 $−$ “Search for pair production of first-generation scalar leptoquarks at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-009/index.html), [PRD 99 (2019) 052002](https://doi.org/10.1103/PhysRevD.99.052002) (2019-03-16), [arXiv:1811.01197](https://arxiv.org/abs/1811.01197) (2018-11-03).
* 844 $−$ “Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two $τ$ leptons and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-016/index.html), [JHEP 03 (2019) 170](https://doi.org/10.1007/JHEP03%282019%29170) (2019-03-26), [arXiv:1811.00806](https://arxiv.org/abs/1811.00806) (2018-11-02).
* 843 $−$ “Event shape variables measured using multijet final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-003/index.html), [JHEP 12 (2018) 117](https://doi.org/10.1007/JHEP12%282018%29117) (2018-12-19), [arXiv:1811.00588](https://arxiv.org/abs/1811.00588) (2018-11-02).
* 842 $−$ “Search for nonresonant Higgs boson pair production in the $b‾b‾$ final state at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-017/index.html), [JHEP 04 (2019) 112](https://doi.org/10.1007/JHEP04%282019%29112) (2019-04-17), [arXiv:1810.11854](https://arxiv.org/abs/1810.11854) (2018-10-29).
* 841 $−$ “Search for low-mass resonances decaying into bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-024/index.html), [PRD 99 (2019) 012005](https://doi.org/10.1103/PhysRevD.99.012005) (2018-11-26), [arXiv:1810.11822](https://arxiv.org/abs/1810.11822) (2018-10-28).
* 840 $−$ “Studies of beauty suppression via nonprompt $D^{0}$ mesons in PbPb collisions a $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-016/index.html), [PRL 123 (2019) 022001](https://doi.org/10.1103/PhysRevLett.123.022001) (2019-07-10), [arXiv:1810.11102](https://arxiv.org/abs/1810.11102) (2018-10-25).
* 839 $−$ “Search for pair-produced three-jet resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-030/index.html), [PRD 99 (2019) 012010](https://doi.org/10.1103/PhysRevD.99.012010) (2019-01-23), [arXiv:1810.10092](https://arxiv.org/abs/1810.10092) (2018-10-23).
* 838 $−$ “Search for new particles decaying to a jet and an emerging jet"
[CMS-EXO-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-001/index.html), [JHEP 02 (2019) 179](https://doi.org/10.1007/JHEP02%282019%29179) (2019-02-26), [arXiv:1810.10069](https://arxiv.org/abs/1810.10069) (2018-10-23).
* 837 $−$ “Search for rare decays of Z and Higgs bosons to $J/ψ$ and a photon in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-012/index.html), [EPJC 79 (2019) 94](https://doi.org/10.1140/epjc/s10052-019-6562-5) (2019-01-30), [arXiv:1810.10056](https://arxiv.org/abs/1810.10056) (2018-10-23).
* 836 $−$ “Search for resonant $t‾$ production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-017/index.html), [JHEP 04 (2019) 031](https://doi.org/10.1007/JHEP04%282019%29031) (2019-04-03), [arXiv:1810.05905](https://arxiv.org/abs/1810.05905) (2018-10-14).
* 835 $−$ “Centrality and pseudorapidity dependence of the transverse energy density in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-014/index.html), [PRC 100 (2019) 024902](https://doi.org/10.1103/PhysRevC.100.024902) (2019-08-02), [arXiv:1810.05745](https://arxiv.org/abs/1810.05745) (2018-10-13).
* 834 $−$ “Evidence for light-by-light scattering and searches for axion-like particles in ultraperipheral PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-FSQ-16-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-012/index.html), [PLB 797 (2019) 134826](https://doi.org/10.1016/j.physletb.2019.134826) (2019-10-10), [arXiv:1810.04602](https://arxiv.org/abs/1810.04602) (2018-10-10).
* 833 $−$ “Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-014/index.html), [JHEP 03 (2019) 082](https://doi.org/10.1007/JHEP03%282019%29082) (2019-03-14), [arXiv:1810.03188](https://arxiv.org/abs/1810.03188) (2018-10-08).
* 832 $−$ “Measurement of $B\_{s}^{0}$ meson production in pp and PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-008/index.html), [PLB 796 (2019) 168](https://doi.org/10.1016/j.physletb.2019.07.014) (2019-09-10), [arXiv:1810.03022](https://arxiv.org/abs/1810.03022) (2018-10-06).
* 831 $−$ “Observation of prompt $J/ψ$ meson elliptic flow in high-multiplicity pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-18-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-010/index.html), [PLB 791 (2019) 172](https://doi.org/10.1016/j.physletb.2019.02.018) (2019-04-10), [arXiv:1810.01473](https://arxiv.org/abs/1810.01473) (2018-10-03).
* 830 $−$ “Measurement of exclusive $Υ$ photoproduction from protons in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-FSQ-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-009/index.html), [EPJC 79 (2019) 277](https://doi.org/10.1140/epjc/s10052-019-6774-8) (2019-03-26), [arXiv:1809.11080](https://arxiv.org/abs/1809.11080) (2018-09-28).
* 829 $−$ “Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-053](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-053/index.html), [JHEP 02 (2019) 074](https://doi.org/10.1007/JHEP02%282019%29074) (2019-02-13), [arXiv:1810.00196](https://arxiv.org/abs/1810.00196) (2018-09-29).
* 828 $−$ “Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-031/index.html), [EPJC 79 (2019) 421](https://doi.org/10.1140/epjc/s10052-019-6909-y) (2019-05-20), [arXiv:1809.10733](https://arxiv.org/abs/1809.10733) (2018-09-27).
* 827 $−$ “Jet shapes of isolated photon-tagged jets in PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-18-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-006/index.html), [PRL 122 (2019) 152001](https://doi.org/10.1103/PhysRevLett.122.152001) (2019-04-18), [arXiv:1809.08602](https://arxiv.org/abs/1809.08602) (2018-09-23).
* 826 $−$ “Search for single production of vector-like quarks decaying to a top quark and a W boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-018/index.html), [EPJC 79 (2019) 90](https://doi.org/10.1140/epjc/s10052-019-6556-3) (2019-01-30), [arXiv:1809.08597](https://arxiv.org/abs/1809.08597) (2018-09-23).
* 825 $−$ “Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-023/index.html), [PLB 793 (2019) 520](https://doi.org/10.1016/j.physletb.2019.04.025) (2019-06-10), [arXiv:1809.05937](https://arxiv.org/abs/1809.05937) (2018-09-16).
* 824 $−$ “Search for leptoquarks coupled to third-generation quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-027/index.html), [PRL 121 (2018) 241802](https://doi.org/10.1103/PhysRevLett.121.241802) (2018-12-13), [arXiv:1809.05558](https://arxiv.org/abs/1809.05558) (2018-09-14).
* 823 $−$ “Search for the associated production of the Higgs boson and a vector boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV via Higgs boson decays to $τ$ leptons"
[CMS-HIG-18-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-007/index.html), [JHEP 06 (2019) 093](https://doi.org/10.1007/JHEP06%282019%29093) (2019-06-19), [arXiv:1809.03590](https://arxiv.org/abs/1809.03590) (2018-09-10).
* 822 $−$ “Studies of $B\_{s2}^{\*}\left(5840\right)^{0}$ and $B\_{s1}\left(5830\right)^{0}$ mesons including the observation of the $B\_{s2}^{\*}\left(5840\right)^{0}\rightarrow B^{0}K\_{S}^{0}$ decay in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-003/index.html), [EPJC 78 (2018) 939](https://doi.org/10.1140/epjc/s10052-018-6390-z) (2018-11-15), [arXiv:1809.03578](https://arxiv.org/abs/1809.03578) (2018-09-10).
* 821 $−$ “Performance of reconstruction and identification of $τ$ leptons decaying to hadrons and $ν\_{τ}$ in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TAU-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-16-003/index.html), [JINST 13 (2018) P10005](https://doi.org/10.1088/1748-0221/13/10/P10005) (2018-10-02), [arXiv:1809.02816](https://arxiv.org/abs/1809.02816) (2018-09-08).
* 820 $−$ “Search for physics beyond the standard model in high-mass diphoton events from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-017/index.html), [PRD 98 (2018) 092001](https://doi.org/10.1103/PhysRevD.98.092001) (2018-11-02), [arXiv:1809.00327](https://arxiv.org/abs/1809.00327) (2018-09-01).
* 819 $−$ “Charged-particle nuclear modification factors in XeXe collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.44 TeV"
[CMS-HIN-18-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-18-004/index.html), [JHEP 10 (2018) 138](https://doi.org/10.1007/JHEP10%282018%29138) (2018-10-22), [arXiv:1809.00201](https://arxiv.org/abs/1809.00201) (2018-09-01).
* 818 $−$ “Observation of Higgs boson decay to bottom quarks"
[CMS-HIG-18-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-18-016/index.html), [PRL 121 (2018) 121801](https://doi.org/10.1103/PhysRevLett.121.121801) (2018-09-18), [arXiv:1808.08242](https://arxiv.org/abs/1808.08242) (2018-08-24).
* 817 $−$ “Measurement of jet substructure observables in $t‾$ events from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-013/index.html), [PRD 98 (2018) 092014](https://doi.org/10.1103/PhysRevD.98.092014) (2018-11-30), [arXiv:1808.07340](https://arxiv.org/abs/1808.07340) (2018-08-22).
* 816 $−$ “Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-16-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-030/index.html), [JHEP 11 (2018) 115](https://doi.org/10.1007/JHEP11%282018%29115) (2018-11-20), [arXiv:1808.06575](https://arxiv.org/abs/1808.06575) (2018-08-20).
* 815 $−$ “Search for pair production of second-generation leptoquarks at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-003/index.html), [PRD 99 (2019) 032014](https://doi.org/10.1103/PhysRevD.99.032014) (2019-02-28), [arXiv:1808.05082](https://arxiv.org/abs/1808.05082) (2018-08-15).
* 814 $−$ “Search for an $L\_{μ}−L\_{τ}$ gauge boson using $Z\rightarrow 4μ$ events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-18-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-18-008/index.html), [PLB 792 (2019) 345](https://doi.org/10.1016/j.physletb.2019.01.072) (2019-05-10), [arXiv:1808.03684](https://arxiv.org/abs/1808.03684) (2018-08-11).
* 813 $−$ “Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-021/index.html), [PRD 98 (2018) 112014](https://doi.org/10.1103/PhysRevD.98.112014) (2018-12-29), [arXiv:1808.03124](https://arxiv.org/abs/1808.03124) (2018-08-09).
* 812 $−$ “Search for long-lived particles with displaced vertices in multijet events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-018/index.html), [PRD 98 (2018) 092011](https://doi.org/10.1103/PhysRevD.98.092011) (2018-11-17), [arXiv:1808.03078](https://arxiv.org/abs/1808.03078) (2018-08-09).
* 811 $−$ “Evidence for the associated production of a single top quark and a photon in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-016/index.html), [PRL 121 (2018) 221802](https://doi.org/10.1103/PhysRevLett.121.221802) (2018-11-30), [arXiv:1808.02913](https://arxiv.org/abs/1808.02913) (2018-08-08).
* 810 $−$ “Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at $\sqrt{s}=$ 8 and 13 TeV"
[CMS-HIG-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-017/index.html), [JHEP 11 (2018) 161](https://doi.org/10.1007/JHEP11%282018%29161) (2018-11-26), [arXiv:1808.01890](https://arxiv.org/abs/1808.01890) (2018-08-06).
* 809 $−$ “Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-019/index.html), [JHEP 01 (2019) 040](https://doi.org/10.1007/JHEP01%282019%29040) (2019-01-04), [arXiv:1808.01473](https://arxiv.org/abs/1808.01473) (2018-08-04).
* 808 $−$ “Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV"
[CMS-B2G-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-006/index.html), [JHEP 01 (2019) 051](https://doi.org/10.1007/JHEP01%282019%29051) (2019-01-07), [arXiv:1808.01365](https://arxiv.org/abs/1808.01365) (2018-08-03).
* 807 $−$ “Search for narrow $Hγ$ resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-019/index.html), [PRL 122 (2019) 081804](https://doi.org/10.1103/PhysRevLett.122.081804) (2019-03-01), [arXiv:1808.01257](https://arxiv.org/abs/1808.01257) (2018-08-03).
* 806 $−$ “Search for a W’ boson decaying to a $τ$ lepton and a neutrino in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-008/index.html), [PLB 792 (2019) 107](https://doi.org/10.1016/j.physletb.2019.01.069) (2019-05-10), [arXiv:1807.11421](https://arxiv.org/abs/1807.11421) (2018-07-31).
* 805 $−$ “Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-010/index.html), [JHEP 11 (2018) 079](https://doi.org/10.1007/JHEP11%282018%29079) (2018-11-13), [arXiv:1807.07799](https://arxiv.org/abs/1807.07799) (2018-07-20).
* 804 $−$ “Search for dark matter particles produced in association with a top quark pair at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-049](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-049/index.html), [PRL 122 (2019) 011803](https://doi.org/10.1103/PhysRevLett.122.011803) (2019-01-11), [arXiv:1807.06522](https://arxiv.org/abs/1807.06522) (2018-07-18).
* 803 $−$ “Search for the Higgs boson decaying to two muons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-019/index.html), [PRL 122 (2019) 021801](https://doi.org/10.1103/PhysRevLett.122.021801) (2019-01-15), [arXiv:1807.06325](https://arxiv.org/abs/1807.06325) (2018-07-17).
* 802 $−$ “Measurements of the differential jet cross section as a function of the jet mass in dijet events from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-010/index.html), [JHEP 11 (2018) 113](https://doi.org/10.1007/JHEP11%282018%29113) (2018-11-20), [arXiv:1807.05974](https://arxiv.org/abs/1807.05974) (2018-07-16).
* 801 $−$ “Measurement of inclusive and differential Higgs boson production cross sections in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-025/index.html), [JHEP 01 (2019) 183](https://doi.org/10.1007/JHEP01%282019%29183) (2019-01-24), [arXiv:1807.03825](https://arxiv.org/abs/1807.03825) (2018-07-11).
* 800 $−$ “Precision measurement of the structure of the CMS inner tracking system using nuclear interactions"
[CMS-TRK-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-17-001/index.html), [JINST 13 (2018) P10034](https://doi.org/10.1088/1748-0221/13/10/P10034) (2018-10-29), [arXiv:1807.03289](https://arxiv.org/abs/1807.03289) (2018-07-09).
* 799 $−$ “Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos and b quarks at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-004/index.html), [JHEP 11 (2018) 172](https://doi.org/10.1007/JHEP11%282018%29172) (2018-11-28), [arXiv:1807.02826](https://arxiv.org/abs/1807.02826) (2018-07-08).
* 798 $−$ “Study of the underlying event in top quark pair production in pp collisions at 13 TeV"
[CMS-TOP-17-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-015/index.html), [EPJC 79 (2019) 123](https://doi.org/10.1140/epjc/s10052-019-6620-z) (2019-02-07), [arXiv:1807.02810](https://arxiv.org/abs/1807.02810) (2018-07-08).
* 797 $−$ “Search for supersymmetry in events with a $τ$ lepton pair and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-003/index.html), [JHEP 11 (2018) 151](https://doi.org/10.1007/JHEP11%282018%29151) (2018-11-23), [arXiv:1807.02048](https://arxiv.org/abs/1807.02048) (2018-07-05).
* 796 $−$ “Measurement of differential cross sections for inclusive isolated-photon and photon+jets production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-003/index.html), [EPJC 79 (2019) 20](https://doi.org/10.1140/epjc/s10052-018-6482-9) (2019-01-10), [arXiv:1807.00782](https://arxiv.org/abs/1807.00782) (2018-07-02).
* 795 $−$ “Measurement of charged particle spectra in minimum-bias events from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-16-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-011/index.html), [EPJC 78 (2018) 697](https://doi.org/10.1140/epjc/s10052-018-6144-y) (2018-08-31), [arXiv:1806.11245](https://arxiv.org/abs/1806.11245) (2018-06-29).
* 794 $−$ “Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=$ 8 and 13 TeV"
[CMS-SMP-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-005/index.html), [PLB 789 (2019) 19](https://doi.org/10.1016/j.physletb.2018.11.007) (2019-02-10), [arXiv:1806.11073](https://arxiv.org/abs/1806.11073) (2018-06-28).
* 793 $−$ “Search for heavy Majorana neutrinos in same-sign dilepton channels in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-028/index.html), [JHEP 01 (2019) 122](https://doi.org/10.1007/JHEP01%282019%29122) (2019-01-15), [arXiv:1806.10905](https://arxiv.org/abs/1806.10905) (2018-06-28).
* 792 $−$ “Search for the decay of a Higgs boson in the $ℓℓγ$ channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-007/index.html), [JHEP 11 (2018) 152](https://doi.org/10.1007/JHEP11%282018%29152) (2018-11-23), [arXiv:1806.05996](https://arxiv.org/abs/1806.05996) (2018-06-15).
* 791 $−$ “Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-009/index.html), [PLB 790 (2019) 005](https://doi.org/10.1016/j.physletb.2019.01.005) (2019-03-10), [arXiv:1806.05264](https://arxiv.org/abs/1806.05264) (2018-06-14).
* 790 $−$ “Measurements of properties of the Higgs boson decaying to a W boson pair in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-16-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-042/index.html), [PLB 791 (2019) 96](https://doi.org/10.1016/j.physletb.2018.12.073) (2019-02-19), [arXiv:1806.05246](https://arxiv.org/abs/1806.05246) (2018-06-14).
* 789 $−$ “Search for dark matter produced in association with a Higgs boson decaying to $γγ$ or $τ^{+}τ^{−}$ at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-055](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-055/index.html), [JHEP 09 (2018) 046](https://doi.org/10.1007/JHEP09%282018%29046) (2018-09-10), [arXiv:1806.04771](https://arxiv.org/abs/1806.04771) (2018-06-13).
* 788 $−$ “Observation of the $Z\rightarrow ψℓ^{+}ℓ^{−}$ decay in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-001/index.html), [PRL 121 (2018) 141801](https://doi.org/10.1103/PhysRevLett.121.141801) (2018-10-10), [arXiv:1806.04213](https://arxiv.org/abs/1806.04213) (2018-06-11).
* 787 $−$ “Search for resonant pair production of Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at 13 TeV"
[CMS-HIG-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-009/index.html), [JHEP 08 (2018) 152](https://doi.org/10.1007/JHEP08%282018%29152) (2018-08-23), [arXiv:1806.03548](https://arxiv.org/abs/1806.03548) (2018-06-10).
* 786 $−$ “Search for a singly produced third-generation scalar leptoquark decaying to a $τ$ lepton and a bottom quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-029/index.html), [JHEP 07 (2018) 115](https://doi.org/10.1007/JHEP07%282018%29115) (2018-07-18), [arXiv:1806.03472](https://arxiv.org/abs/1806.03472) (2018-06-09).
* 785 $−$ “Search for pair-produced resonances each decaying into at least four quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-022/index.html), [PRL 121 (2018) 141802](https://doi.org/10.1103/PhysRevLett.121.141802) (2018-10-10), [arXiv:1806.01058](https://arxiv.org/abs/1806.01058) (2018-06-04).
* 784 $−$ “Measurement of the weak mixing angle using the forward-backward asymmetry of Drell-Yan events in pp collisions at 8 TeV"
[CMS-SMP-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-007/index.html), [EPJC 78 (2018) 701](https://doi.org/10.1140/epjc/s10052-018-6148-7) (2018-09-01), [arXiv:1806.00863](https://arxiv.org/abs/1806.00863) (2018-06-03).
* 783 $−$ “Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV and constraints on dark matter mediators and other new particles"
[CMS-EXO-16-056](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-056/index.html), [JHEP 08 (2018) 130](https://doi.org/10.1007/JHEP08%282018%29130) (2018-08-21), [arXiv:1806.00843](https://arxiv.org/abs/1806.00843) (2018-06-03).
* 782 $−$ “Angular analysis of the decay $B^{+}\rightarrow K^{+}μ^{+}μ^{−}$ in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-001/index.html), [PRD 98 (2018) 112011](https://doi.org/10.1103/PhysRevD.98.112011) (2018-12-21), [arXiv:1806.00636](https://arxiv.org/abs/1806.00636) (2018-06-02).
* 781 $−$ “Search for Higgs boson pair production in the $γγb‾$ final state in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-008/index.html), [PLB 788 (2018) 7](https://doi.org/10.1016/j.physletb.2018.10.056) (2019-01-10), [arXiv:1806.00408](https://arxiv.org/abs/1806.00408) (2018-06-01).
* 780 $−$ “Search for beyond the standard model Higgs bosons decaying into a $b‾$ pair in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-16-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-018/index.html), [JHEP 08 (2018) 113](https://doi.org/10.1007/JHEP08%282018%29113) (2018-08-20), [arXiv:1805.12191](https://arxiv.org/abs/1805.12191) (2018-05-31).
* 779 $−$ “Observation of the $χ\_{b1}\left(3P\right)$ and $χ\_{b2}\left(3P\right)$ and measurement of their masses"
[CMS-BPH-17-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-17-008/index.html), [PRL 121 (2018) 092002](https://doi.org/10.1103/PhysRevLett.121.092002) (2018-08-29), [arXiv:1805.11192](https://arxiv.org/abs/1805.11192) (2018-05-29).
* 778 $−$ “Constraints on models of scalar and vector leptoquarks decaying to a quark and a neutrino at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-18-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-18-001/index.html), [PRD 98 (2018) 032005](https://doi.org/10.1103/PhysRevD.98.032005) (2018-08-11), [arXiv:1805.10228](https://arxiv.org/abs/1805.10228) (2018-05-25).
* 777 $−$ “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two b quarks and two $τ$ leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-024/index.html), [PLB 785 (2018) 462](https://doi.org/10.1016/j.physletb.2018.08.057) (2018-08-31), [arXiv:1805.10191](https://arxiv.org/abs/1805.10191) (2018-05-25).
* 776 $−$ “Measurement of nuclear modification factors of $Υ\left(1S\right)$, $Υ\left(2S\right)$, and $Υ\left(3S\right)$ mesons in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-023/index.html), [PLB 790 (2019) 270](https://doi.org/10.1016/j.physletb.2019.01.006) (2019-03-10), [arXiv:1805.09215](https://arxiv.org/abs/1805.09215) (2018-05-23).
* 775 $−$ “Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-018/index.html), [JHEP 10 (2018) 117](https://doi.org/10.1007/JHEP10%282018%29117) (2018-10-18), [arXiv:1805.07399](https://arxiv.org/abs/1805.07399) (2018-05-18).
* 774 $−$ “Search for black holes and sphalerons in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-023/index.html), [JHEP 11 (2018) 042](https://doi.org/10.1007/JHEP11%282018%29042) (2018-11-07), [arXiv:1805.06013](https://arxiv.org/abs/1805.06013) (2018-05-15).
* 773 $−$ “Search for top squarks decaying via four-body or chargino-mediated modes in single-lepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-005/index.html), [JHEP 09 (2018) 065](https://doi.org/10.1007/JHEP09%282018%29065) (2018-09-12), [arXiv:1805.05784](https://arxiv.org/abs/1805.05784) (2018-05-15).
* 772 $−$ “Measurement of the groomed jet mass in PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-024/index.html), [JHEP 10 (2018) 161](https://doi.org/10.1007/JHEP10%282018%29161) (2018-10-25), [arXiv:1805.05145](https://arxiv.org/abs/1805.05145) (2018-05-14).
* 771 $−$ “Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state of two muons and two $τ$ leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-029/index.html), [JHEP 11 (2018) 018](https://doi.org/10.1007/JHEP11%282018%29018) (2018-11-06), [arXiv:1805.04865](https://arxiv.org/abs/1805.04865) (2018-05-13).
* 770 $−$ “Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-011/index.html), [JHEP 08 (2018) 177](https://doi.org/10.1007/JHEP08%282018%29177) (2018-08-28), [arXiv:1805.04758](https://arxiv.org/abs/1805.04758) (2018-05-13).
* 769 $−$ “Constraining gluon distributions in nuclei using dijets in proton-proton and proton-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-003/index.html), [PRL 121 (2018) 062002](https://doi.org/10.1103/PhysRevLett.121.062002) (2018-08-08), [arXiv:1805.04736](https://arxiv.org/abs/1805.04736) (2018-05-13).
* 768 $−$ “Measurement of prompt $ψ\left(2S\right)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-015/index.html), [PLB 790 (2019) 509](https://doi.org/10.1016/j.physletb.2019.01.058) (2019-03-10), [arXiv:1805.02248](https://arxiv.org/abs/1805.02248) (2018-05-06).
* 767 $−$ “Measurement of the top quark mass with lepton+jets final states using pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-007/index.html), [EPJC 78 (2018) 891](https://doi.org/10.1140/epjc/s10052-018-6332-9) (2018-11-02), [arXiv:1805.01428](https://arxiv.org/abs/1805.01428) (2018-05-03).
* 766 $−$ “Elliptic flow of charm and strange hadrons in high-multiplicity pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 8.16 TeV"
[CMS-HIN-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-003/index.html), [PRL 121 (2018) 082301](https://doi.org/10.1103/PhysRevLett.121.082301) (2018-08-21), [arXiv:1804.09767](https://arxiv.org/abs/1804.09767) (2018-04-26).
* 765 $−$ “Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-044](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-044/index.html), [JHEP 08 (2018) 016](https://doi.org/10.1007/JHEP08%282018%29016) (2018-08-07), [arXiv:1804.07321](https://arxiv.org/abs/1804.07321) (2018-04-19).
* 764 $−$ “Measurement of differential cross sections for Z boson production in association with jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-015/index.html), [EPJC 78 (2018) 965](https://doi.org/10.1140/epjc/s10052-018-6373-0) (2018-11-22), [arXiv:1804.05252](https://arxiv.org/abs/1804.05252) (2018-04-14).
* 763 $−$ “Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-MUO-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-16-001/index.html), [JINST 13 (2018) P06015](https://doi.org/10.1088/1748-0221/13/06/P06015) (2018-06-19), [arXiv:1804.04528](https://arxiv.org/abs/1804.04528) (2018-04-12).
* 762 $−$ “Search for $t‾H$ production in the $H\rightarrow b‾$ decay channel with leptonic $t‾$ decays in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-026/index.html), [JHEP 03 (2019) 026](https://doi.org/10.1007/JHEP03%282019%29026) (2019-03-05), [arXiv:1804.03682](https://arxiv.org/abs/1804.03682) (2018-04-10).
* 761 $−$ “Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-16-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-040/index.html), [JHEP 11 (2018) 185](https://doi.org/10.1007/JHEP11%282018%29185) (2018-11-29), [arXiv:1804.02716](https://arxiv.org/abs/1804.02716) (2018-04-08).
* 760 $−$ “Observation of $t‾H$ production"
[CMS-HIG-17-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-035/index.html), [PRL 120 (2018) 231801](https://doi.org/10.1103/PhysRevLett.120.231801) (2018-06-05), [arXiv:1804.02610](https://arxiv.org/abs/1804.02610) (2018-04-08).
* 759 $−$ “Search for a new scalar resonance decaying to a pair of Z bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-012/index.html), [JHEP 06 (2018) 127](https://doi.org/10.1007/JHEP06%282018%29127) (2018-06-25), [arXiv:1804.01939](https://arxiv.org/abs/1804.01939) (2018-04-05).
* 758 $−$ “Search for high-mass resonances in final states with a lepton and missing transverse momentum at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-033/index.html), [JHEP 06 (2018) 128](https://doi.org/10.1007/JHEP06%282018%29128) (2018-06-25), [arXiv:1803.11133](https://arxiv.org/abs/1803.11133) (2018-03-29).
* 757 $−$ “Search for a heavy right-handed W boson and a heavy neutrino in events with two same-flavor leptons and two jets at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-011/index.html), [JHEP 05 (2018) 148](https://doi.org/10.1007/JHEP05%282018%29148) (2018-05-24), [arXiv:1803.11116](https://arxiv.org/abs/1803.11116) (2018-03-29).
* 756 $−$ “Search for a new heavy resonance decaying into a Z boson and a Z or W boson in $2ℓ2q$ final states at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-013/index.html), [JHEP 09 (2018) 101](https://doi.org/10.1007/JHEP09%282018%29101) (2018-09-18), [arXiv:1803.10093](https://arxiv.org/abs/1803.10093) (2018-03-27).
* 755 $−$ “Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton+jets events from pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-002/index.html), [PRD 97 (2018) 112003](https://doi.org/10.1103/PhysRevD.97.112003) (2018-06-16), [arXiv:1803.08856](https://arxiv.org/abs/1803.08856) (2018-03-23).
* 754 $−$ “Search for new physics in dijet angular distributions using proton-proton collisions at $\sqrt{s}=$ 13 TeV and constraints on dark matter and other models"
[CMS-EXO-16-046](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-046/index.html), [EPJC 78 (2018) 789](https://doi.org/10.1140/epjc/s10052-018-6242-x) (2018-09-28), [arXiv:1803.08030](https://arxiv.org/abs/1803.08030) (2018-03-21).
* 753 $−$ “Search for $t‾H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-022/index.html), [JHEP 06 (2018) 101](https://doi.org/10.1007/JHEP06%282018%29101) (2018-06-20), [arXiv:1803.06986](https://arxiv.org/abs/1803.06986) (2018-03-19).
* 752 $−$ “Search for additional neutral MSSM Higgs bosons in the $ττ$ final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-020/index.html), [JHEP 09 (2018) 007](https://doi.org/10.1007/JHEP09%282018%29007) (2018-09-03), [arXiv:1803.06553](https://arxiv.org/abs/1803.06553) (2018-03-17).
* 751 $−$ “Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-047](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-047/index.html), [JHEP 06 (2018) 120](https://doi.org/10.1007/JHEP06%282018%29120) (2018-06-22), [arXiv:1803.06292](https://arxiv.org/abs/1803.06292) (2018-03-16).
* 750 $−$ “Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying $τ$ leptons at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-018/index.html), [JHEP 08 (2018) 066](https://doi.org/10.1007/JHEP08%282018%29066) (2018-08-13), [arXiv:1803.05485](https://arxiv.org/abs/1803.05485) (2018-03-14).
* 749 $−$ “Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer"
[CMS-PPS-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PPS-17-001/index.html), [JHEP 07 (2018) 153](https://doi.org/10.1007/JHEP07%282018%29153) (2018-07-24), [arXiv:1803.04496](https://arxiv.org/abs/1803.04496) (2018-03-13).
* 748 $−$ “Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-014/index.html), [JHEP 06 (2018) 002](https://doi.org/10.1007/JHEP06%282018%29002) (2018-06-01), [arXiv:1803.03991](https://arxiv.org/abs/1803.03991) (2018-03-11).
* 747 $−$ “Search for a heavy resonance decaying into a Z boson and a vector boson in the $ν\overline{ν}q‾$ final state"
[CMS-B2G-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-005/index.html), [JHEP 07 (2018) 075](https://doi.org/10.1007/JHEP07%282018%29075) (2018-07-11), [arXiv:1803.03838](https://arxiv.org/abs/1803.03838) (2018-03-10).
* 746 $−$ “Search for third-generation scalar leptoquarks decaying to a top quark and a $τ$ lepton at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-028/index.html), [EPJC 78 (2018) 707](https://doi.org/10.1140/epjc/s10052-018-6143-z) (2018-09-03), [arXiv:1803.02864](https://arxiv.org/abs/1803.02864) (2018-03-08).
* 745 $−$ “Jet properties in PbPb and pp collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-16-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-020/index.html), [JHEP 05 (2018) 006](https://doi.org/10.1007/JHEP05%282018%29006) (2018-05-02), [arXiv:1803.00042](https://arxiv.org/abs/1803.00042) (2018-02-28).
* 744 $−$ “Search for a heavy resonance decaying to a pair of vector bosons in the lepton plus merged jet final state at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-029/index.html), [JHEP 05 (2018) 088](https://doi.org/10.1007/JHEP05%282018%29088) (2018-05-15), [arXiv:1802.09407](https://arxiv.org/abs/1802.09407) (2018-02-26).
* 743 $−$ “Search for narrow resonances in the b-tagged dijet mass spectrum in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-16-057](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-057/index.html), [PRL 120 (2018) 201801](https://doi.org/10.1103/PhysRevLett.120.201801) (2018-05-15), [arXiv:1802.06149](https://arxiv.org/abs/1802.06149) (2018-02-17).
* 742 $−$ “Measurement of the $Λ\_{b}$ polarization and angular parameters in $Λ\_{b}\rightarrow J/ψΛ$ decays from pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-BPH-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-002/index.html), [PRD 97 (2018) 072010](https://doi.org/10.1103/PhysRevD.97.072010) (2018-04-18), [arXiv:1802.04867](https://arxiv.org/abs/1802.04867) (2018-02-13).
* 741 $−$ “Search for heavy neutral leptons in events with three charged leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-012/index.html), [PRL 120 (2018) 221801](https://doi.org/10.1103/PhysRevLett.120.221801) (2018-05-30), [arXiv:1802.02965](https://arxiv.org/abs/1802.02965) (2018-02-08).
* 740 $−$ “Measurement of the inelastic proton-proton cross section at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-005/index.html), [JHEP 07 (2018) 161](https://doi.org/10.1007/JHEP07%282018%29161) (2018-07-25), [arXiv:1802.02613](https://arxiv.org/abs/1802.02613) (2018-02-07).
* 739 $−$ “Search for natural and split supersymmetry in proton-proton collisions at $\sqrt{s}=$ 13 TeV in final states with jets and missing transverse momentum"
[CMS-SUS-16-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-038/index.html), [JHEP 05 (2018) 025](https://doi.org/10.1007/JHEP05%282018%29025) (2018-05-04), [arXiv:1802.02110](https://arxiv.org/abs/1802.02110) (2018-02-06).
* 738 $−$ “Search for single production of vector-like quarks decaying to a b quark and a Higgs boson"
[CMS-B2G-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-009/index.html), [JHEP 06 (2018) 031](https://doi.org/10.1007/JHEP06%282018%29031) (2018-06-05), [arXiv:1802.01486](https://arxiv.org/abs/1802.01486) (2018-02-05).
* 737 $−$ “Search for lepton-flavor violating decays of heavy resonances and quantum black holes to e$μ$ final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-058](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-058/index.html), [JHEP 04 (2018) 073](https://doi.org/10.1007/JHEP04%282018%29073) (2018-04-13), [arXiv:1802.01122](https://arxiv.org/abs/1802.01122) (2018-02-04).
* 736 $−$ “Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-005/index.html), [JHEP 03 (2018) 181](https://doi.org/10.1007/JHEP03%282018%29181) (2018-03-29), [arXiv:1802.00707](https://arxiv.org/abs/1802.00707) (2018-02-02).
* 735 $−$ “Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-051](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-051/index.html), [JHEP 06 (2018) 027](https://doi.org/10.1007/JHEP06%282018%29027) (2018-06-05), [arXiv:1801.08427](https://arxiv.org/abs/1801.08427) (2018-01-25).
* 734 $−$ “Observation of medium induced modifications of jet fragmentation in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV using isolated-photon-tagged jets"
[CMS-HIN-16-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-014/index.html), [PRL 121 (2018) 242301](https://doi.org/10.1103/PhysRevLett.121.242301) (2018-12-15), [arXiv:1801.04895](https://arxiv.org/abs/1801.04895) (2018-01-15).
* 733 $−$ “Combined search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-004/index.html), [JHEP 03 (2018) 160](https://doi.org/10.1007/JHEP03%282018%29160) (2018-03-27), [arXiv:1801.03957](https://arxiv.org/abs/1801.03957) (2018-01-11).
* 732 $−$ “Measurement of the $Z/γ^{\*}\rightarrow ττ$ cross section in pp collisions at $\sqrt{s}=$ 13 TeV and validation of $τ$ lepton analysis techniques"
[CMS-HIG-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-007/index.html), [EPJC 78 (2018) 708](https://doi.org/10.1140/epjc/s10052-018-6146-9) (2018-09-03), [arXiv:1801.03535](https://arxiv.org/abs/1801.03535) (2018-01-10).
* 731 $−$ “Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-048](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-048/index.html), [PLB 782 (2018) 440](https://doi.org/10.1016/j.physletb.2018.05.062) (2018-05-25), [arXiv:1801.01846](https://arxiv.org/abs/1801.01846) (2018-01-05).
* 730 $−$ “Search for decays of stopped exotic long-lived particles produced in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-004/index.html), [JHEP 05 (2018) 127](https://doi.org/10.1007/JHEP05%282018%29127) (2018-05-21), [arXiv:1801.00359](https://arxiv.org/abs/1801.00359) (2017-12-31).
* 729 $−$ “Electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-018/index.html), [EPJC 78 (2018) 589](https://doi.org/10.1140/epjc/s10052-018-6049-9) (2018-07-20), [arXiv:1712.09814](https://arxiv.org/abs/1712.09814) (2017-12-28).
* 728 $−$ “Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV"
[CMS-HIN-16-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-025/index.html), [EPJC 78 (2018) 509](https://doi.org/10.1140/epjc/s10052-018-5950-6) (2018-06-20), [arXiv:1712.08959](https://arxiv.org/abs/1712.08959) (2017-12-24).
* 727 $−$ “Search for $R$-parity violating supersymmetry in pp collisions at $\sqrt{s}=$ 13 TeV using b jets in a final state with a single lepton, many jets, and high sum of large-radius jet masses"
[CMS-SUS-16-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-040/index.html), [PLB 783 (2018) 114](https://doi.org/10.1016/j.physletb.2018.06.028) (2018-08-10), [arXiv:1712.08920](https://arxiv.org/abs/1712.08920) (2017-12-24).
* 726 $−$ “Search for physics beyond the standard model in events with high-momentum Higgs bosons and missing transverse momentum in proton-proton collisions at 13 TeV"
[CMS-SUS-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-006/index.html), [PRL 120 (2018) 241801](https://doi.org/10.1103/PhysRevLett.120.241801) (2018-06-12), [arXiv:1712.08501](https://arxiv.org/abs/1712.08501) (2017-12-22).
* 725 $−$ “Study of Bose-Einstein correlations in pp, pPb, and PbPb collisions at the LHC"
[CMS-FSQ-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-14-002/index.html), [PRC 97 (2018) 064912](https://doi.org/10.1103/PhysRevC.97.064912) (2018-06-15), [arXiv:1712.07198](https://arxiv.org/abs/1712.07198) (2017-12-20).
* 724 $−$ “Search for lepton flavour violating decays of the Higgs boson to $μτ$ and $eτ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-001/index.html), [JHEP 06 (2018) 001](https://doi.org/10.1007/JHEP06%282018%29001) (2018-06-01), [arXiv:1712.07173](https://arxiv.org/abs/1712.07173) (2017-12-20).
* 723 $−$ “Identification of heavy-flavour jets with the CMS detector in pp collisions at 13 TeV"
[CMS-BTV-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BTV-16-002/index.html), [JINST 13 (2018) P05011](https://doi.org/10.1088/1748-0221/13/05/P05011) (2018-05-08), [arXiv:1712.07158](https://arxiv.org/abs/1712.07158) (2017-12-19).
* 722 $−$ “Search for the X(5568) state decaying into $B\_{s}^{0}π^{\pm }$ in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-16-002/index.html), [PRL 120 (2018) 202005](https://doi.org/10.1103/PhysRevLett.120.202005) (2018-05-19), [arXiv:1712.06144](https://arxiv.org/abs/1712.06144) (2017-12-17).
* 721 $−$ “Azimuthal correlations for inclusive 2-jet, 3-jet, and 4-jet events in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-014/index.html), [EPJC 78 (2018) 566](https://doi.org/10.1140/epjc/s10052-018-6033-4) (2018-07-10), [arXiv:1712.05471](https://arxiv.org/abs/1712.05471) (2017-12-14).
* 720 $−$ “Search for Z$γ$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-005/index.html), [JHEP 09 (2018) 148](https://doi.org/10.1007/JHEP09%282018%29148) (2018-09-26), [arXiv:1712.03143](https://arxiv.org/abs/1712.03143) (2017-12-09).
* 719 $−$ “Measurement of the associated production of a single top quark and a Z boson in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-020/index.html), [PLB 779 (2018) 358](https://doi.org/10.1016/j.physletb.2018.02.025) (2018-04-10), [arXiv:1712.02825](https://arxiv.org/abs/1712.02825) (2017-12-08).
* 718 $−$ “Search for new physics in final states with an energetic jet or a hadronically decaying W or Z boson and transverse momentum imbalance at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-048](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-048/index.html), [PRD 97 (2018) 092005](https://doi.org/10.1103/PhysRevD.97.092005) (2018-05-22), [arXiv:1712.02345](https://arxiv.org/abs/1712.02345) (2017-12-06).
* 717 $−$ “Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-003/index.html), [JHEP 06 (2018) 102](https://doi.org/10.1007/JHEP06%282018%29102) (2018-06-20), [arXiv:1712.02399](https://arxiv.org/abs/1712.02399) (2017-12-06).
* 716 $−$ “Constraints on the double-parton scattering cross section from same-sign W boson pair production in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-FSQ-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-005/index.html), [JHEP 02 (2018) 032](https://doi.org/10.1007/JHEP02%282018%29032) (2018-02-06), [arXiv:1712.02280](https://arxiv.org/abs/1712.02280) (2017-12-06).
* 715 $−$ “Search for pair production of excited top quarks in the lepton+jets final state"
[CMS-B2G-16-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-025/index.html), [PLB 778 (2018) 349](https://doi.org/10.1016/j.physletb.2018.01.049) (2018-03-10), [arXiv:1711.10949](https://arxiv.org/abs/1711.10949) (2017-11-29).
* 714 $−$ “Study of jet quenching with isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-002/index.html), [PLB 785 (2018) 14](https://doi.org/10.1016/j.physletb.2018.07.061) (2018-10-10), [arXiv:1711.09738](https://arxiv.org/abs/1711.09738) (2017-11-27).
* 713 $−$ “Search for new long-lived particles at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-003/index.html), [PLB 780 (2018) 432](https://doi.org/10.1016/j.physletb.2018.03.019) (2018-05-10), [arXiv:1711.09120](https://arxiv.org/abs/1711.09120) (2017-11-25).
* 712 $−$ “Search for gauge-mediated supersymmetry in events with at least one photon and missing transverse momentum in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-046](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-046/index.html), [PLB 780 (2018) 118](https://doi.org/10.1016/j.physletb.2018.02.045) (2018-05-10), [arXiv:1711.08008](https://arxiv.org/abs/1711.08008) (2017-11-21).
* 711 $−$ “Non-Gaussian elliptic-flow fluctuations in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-019/index.html), [PLB 789 (2019) 643](https://doi.org/10.1016/j.physletb.2018.11.063) (2019-02-10), [arXiv:1711.05594](https://arxiv.org/abs/1711.05594) (2017-11-15).
* 710 $−$ “Search for excited quarks of light and heavy flavor in $γ$+jet final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-002/index.html), [PLB 781 (2018) 390](https://doi.org/10.1016/j.physletb.2018.04.007) (2018-06-10), [arXiv:1711.04652](https://arxiv.org/abs/1711.04652) (2017-11-13).
* 709 $−$ “Search for ZZ resonances in the $2ℓ2ν$ final state in proton-proton collisions at 13 TeV"
[CMS-B2G-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-023/index.html), [JHEP 03 (2018) 003](https://doi.org/10.1007/JHEP03%282018%29003) (2018-03-05), [arXiv:1711.04370](https://arxiv.org/abs/1711.04370) (2017-11-13).
* 708 $−$ “Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-008/index.html), [JHEP 07 (2018) 032](https://doi.org/10.1007/JHEP07%282018%29032) (2018-07-05), [arXiv:1711.04299](https://arxiv.org/abs/1711.04299) (2017-11-12).
* 707 $−$ “Measurement of the inclusive $t‾$ cross section in pp collisions at $\sqrt{s}=$ 5.02 TeV using final states with at least one charged lepton"
[CMS-TOP-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-023/index.html), [JHEP 03 (2018) 115](https://doi.org/10.1007/JHEP03%282018%29115) (2018-03-20), [arXiv:1711.03143](https://arxiv.org/abs/1711.03143) (2017-11-08).
* 706 $−$ “Measurement of the cross section for top quark pair production in association with a W or Z boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-005/index.html), [JHEP 08 (2018) 011](https://doi.org/10.1007/JHEP08%282018%29011) (2018-08-03), [arXiv:1711.02547](https://arxiv.org/abs/1711.02547) (2017-11-07).
* 705 $−$ “Measurement of associated Z+charm production in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-009/index.html), [EPJC 78 (2018) 287](https://doi.org/10.1140/epjc/s10052-018-5752-x) (2018-04-09), [arXiv:1711.02143](https://arxiv.org/abs/1711.02143) (2017-11-06).
* 704 $−$ “Search for top squarks and dark matter particles in opposite-charge dilepton final states at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-17-001/index.html), [PRD 97 (2018) 032009](https://doi.org/10.1103/PhysRevD.97.032009) (2018-02-16), [arXiv:1711.00752](https://arxiv.org/abs/1711.00752) (2017-11-02).
* 703 $−$ “Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks"
[CMS-SUS-16-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-050/index.html), [PRD 97 (2018) 012007](https://doi.org/10.1103/PhysRevD.97.012007) (2018-02-01), [arXiv:1710.11188](https://arxiv.org/abs/1710.11188) (2017-10-30).
* 702 $−$ “Search for new physics in events with a leptonically decaying Z boson and a large transverse momentum imbalance in proton-proton collisions at $\sqrt{s}$ = 13 TeV"
[CMS-EXO-16-052](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-052/index.html), [EPJC 78 (2018) 291](https://doi.org/10.1140/epjc/s10052-018-5740-1) (2018-04-11), [arXiv:1711.00431](https://arxiv.org/abs/1711.00431) (2017-10-31).
* 701 $−$ “Search for standard model production of four top quarks with same-sign and multilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-17-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-17-009/index.html), [EPJC 78 (2018) 140](https://doi.org/10.1140/epjc/s10052-018-5607-5) (2018-02-19), [arXiv:1710.10614](https://arxiv.org/abs/1710.10614) (2017-10-30).
* 700 $−$ “Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-005/index.html), [PLB 780 (2018) 251](https://doi.org/10.1016/j.physletb.2018.02.033) (2018-05-10), [arXiv:1710.11002](https://arxiv.org/abs/1710.11002) (2017-10-30).
* 699 $−$ “Pseudorapidity distributions of charged hadrons in proton-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 and 8.16 TeV"
[CMS-HIN-16-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-021/index.html), [JHEP 01 (2018) 045](https://doi.org/10.1007/JHEP01%282018%29045) (2018-01-11), [arXiv:1710.09355](https://arxiv.org/abs/1710.09355) (2017-10-26).
* 698 $−$ “Measurement of b hadron lifetimes in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-008/index.html), [EPJC 78 (2018) 457](https://doi.org/10.1140/epjc/s10052-018-5929-3) (2018-06-07), [arXiv:1710.08949](https://arxiv.org/abs/1710.08949) (2017-10-24).
* 697 $−$ “Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-041/index.html), [JHEP 02 (2018) 067](https://doi.org/10.1007/JHEP02%282018%29067) (2018-02-12), [arXiv:1710.09154](https://arxiv.org/abs/1710.09154) (2017-10-23).
* 696 $−$ “Measurement of differential cross sections in the $ϕ^{\*}$ variable for inclusive $Z$ boson production in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-002/index.html), [JHEP 03 (2018) 172](https://doi.org/10.1007/JHEP03%282018%29172) (2018-03-28), [arXiv:1710.07955](https://arxiv.org/abs/1710.07955) (2017-10-22).
* 695 $−$ “Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions"
[CMS-HIN-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-008/index.html), [PRC 98 (2018) 044902](https://doi.org/10.1103/PhysRevC.98.044902) (2018-10-05), [arXiv:1710.07864](https://arxiv.org/abs/1710.07864) (2017-10-22).
* 694 $−$ “Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-026/index.html), [PLB 781 (2018) 244](https://doi.org/10.1016/j.physletb.2018.03.084) (2018-06-10), [arXiv:1710.04960](https://arxiv.org/abs/1710.04960) (2017-10-16).
* 693 $−$ “Measurement of angular parameters from the decay $B^{0}\rightarrow K^{\*0}μ^{+}μ^{−}$ in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-008/index.html), [PLB 781 (2018) 517](https://doi.org/10.1016/j.physletb.2018.04.030) (2018-06-10), [arXiv:1710.02846](https://arxiv.org/abs/1710.02846) (2017-10-08).
* 692 $−$ “Study of dijet events with a large rapidity gap between the two leading jets in pp collisions at $\sqrt{s}=$ 7 TeV"
[CMS-FSQ-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-001/index.html), [EPJC 78 (2018) 242](https://doi.org/10.1140/epjc/s10052-018-5691-6) (2018-03-21), [arXiv:1710.02586](https://arxiv.org/abs/1710.02586) (2017-10-02).
* 691 $−$ “Search for pair production of vector-like quarks in the $bW‾W$ channel from proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-003/index.html), [PLB 779 (2018) 82](https://doi.org/10.1016/j.physletb.2018.01.077) (2018-04-10), [arXiv:1710.01539](https://arxiv.org/abs/1710.01539) (2017-10-02).
* 690 $−$ “Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-001/index.html), [JHEP 01 (2018) 097](https://doi.org/10.1007/JHEP01%282018%29097) (2018-01-22), [arXiv:1710.00159](https://arxiv.org/abs/1710.00159) (2017-09-30).
* 689 $−$ “Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-042/index.html), [PLB 780 (2018) 384](https://doi.org/10.1016/j.physletb.2018.03.028) (2018-05-10), [arXiv:1709.09814](https://arxiv.org/abs/1709.09814) (2017-09-28).
* 688 $−$ “Observation of correlated azimuthal anisotropy Fourier harmonics in pp and pPb collisions at the LHC"
[CMS-HIN-16-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-022/index.html), [PRL 120 (2018) 092301](https://doi.org/10.1103/PhysRevLett.120.092301) (2018-02-27), [arXiv:1709.09189](https://arxiv.org/abs/1709.09189) (2017-09-26).
* 687 $−$ “Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-034/index.html), [JHEP 03 (2018) 076](https://doi.org/10.1007/s13130-018-7845-2) (2018-03-13), [arXiv:1709.08908](https://arxiv.org/abs/1709.08908) (2017-09-26).
* 686 $−$ “Measurements of the $pp\rightarrow ZZ$ production cross section and the $Z\rightarrow 4ℓ$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-017/index.html), [EPJC 78 (2018) 165](https://doi.org/10.1140/epjc/s10052-018-5567-9) (2018-02-24), [arXiv:1709.08601](https://arxiv.org/abs/1709.08601) (2017-09-25).
* 685 $−$ “Observation of top quark production in proton-nucleus collisions"
[CMS-HIN-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-002/index.html), [PRL 119 (2017) 242001](https://doi.org/10.1103/PhysRevLett.119.242001) (2017-12-14), [arXiv:1709.07411](https://arxiv.org/abs/1709.07411) (2017-09-21).
* 684 $−$ “Evidence for the Higgs boson decay to a bottom quark-antiquark pair"
[CMS-HIG-16-044](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-044/index.html), [PLB 780 (2018) 501](https://doi.org/10.1016/j.physletb.2018.02.050) (2018-05-10), [arXiv:1709.07497](https://arxiv.org/abs/1709.07497) (2017-09-21).
* 683 $−$ “Observation of electroweak production of same-sign W boson pairs in the two jet and two same-sign lepton final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-004/index.html), [PRL 120 (2018) 081801](https://doi.org/10.1103/PhysRevLett.120.081801) (2018-02-23), [arXiv:1709.05822](https://arxiv.org/abs/1709.05822) (2017-09-18).
* 682 $−$ “Inclusive search for a highly boosted Higgs boson decaying to a bottom quark-antiquark pair"
[CMS-HIG-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-010/index.html), [PRL 120 (2018) 071802](https://doi.org/10.1103/PhysRevLett.120.071802) (2018-02-15), [arXiv:1709.05543](https://arxiv.org/abs/1709.05543) (2017-09-16).
* 681 $−$ “Search for electroweak production of charginos and neutralinos in multilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-039](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-039/index.html), [JHEP 03 (2018) 166](https://doi.org/10.1007/JHEP03%282018%29166) (2018-03-27), [arXiv:1709.05406](https://arxiv.org/abs/1709.05406) (2017-09-15).
* 680 $−$ “Combination of inclusive and differential $t‾$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-15-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-016/index.html), [JHEP 04 (2018) 033](https://doi.org/10.1007/JHEP04%282018%29033) (2018-04-09), [arXiv:1709.05327](https://arxiv.org/abs/1709.05327) (2017-09-15).
* 679 $−$ “Search for higgsino pair production in pp collisions at $\sqrt{s}=$ 13 TeV in final states with large missing transverse momentum and two Higgs bosons decaying via $H\rightarrow b‾$"
[CMS-SUS-16-044](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-044/index.html), [PRD 97 (2018) 032007](https://doi.org/10.1103/PhysRevD.97.032007) (2018-02-09), [arXiv:1709.04896](https://arxiv.org/abs/1709.04896) (2017-09-14).
* 678 $−$ “Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-045](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-045/index.html), [PLB 779 (2018) 166](https://doi.org/10.1016/j.physletb.2017.12.069) (2018-04-10), [arXiv:1709.00384](https://arxiv.org/abs/1709.00384) (2017-09-01).
* 677 $−$ “Measurement of the splitting function in pp and PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-006/index.html), [PRL 120 (2018) 142302](https://doi.org/10.1103/PhysRevLett.120.142302) (2018-04-03), [arXiv:1708.09429](https://arxiv.org/abs/1708.09429) (2017-08-30).
* 676 $−$ “Challenges to the chiral magnetic wave using charge-dependent azimuthal anisotropies in pPb and PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-017/index.html), [PRC 100 (2019) 064908](https://doi.org/10.1103/PhysRevC.100.064908) (2019-12-18), [arXiv:1708.08901](https://arxiv.org/abs/1708.08901) (2017-08-29).
* 675 $−$ “Search for heavy resonances decaying to a top quark and a bottom quark in the lepton+jets final state in proton-proton collisions at 13 TeV"
[CMS-B2G-17-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-010/index.html), [PLB 777 (2017) 39](https://doi.org/10.1016/j.physletb.2017.12.006) (2018-02-10), [arXiv:1708.08539](https://arxiv.org/abs/1708.08539) (2017-08-28).
* 674 $−$ “Search for evidence of the type-III seesaw mechanism in multilepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-17-006/index.html), [PRL 119 (2017) 221802](https://doi.org/10.1103/PhysRevLett.119.221802) (2017-12-01), [arXiv:1708.07962](https://arxiv.org/abs/1708.07962) (2017-08-25).
* 673 $−$ “Measurement of normalized differential $t‾$ cross sections in the dilepton channel from pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-007/index.html), [JHEP 04 (2018) 060](https://doi.org/10.1007/JHEP04%282018%29060) (2018-04-11), [arXiv:1708.07638](https://arxiv.org/abs/1708.07638) (2017-08-25).
* 672 $−$ “Principal-component analysis of two-particle azimuthal correlations in PbPb and pPb collisions at CMS"
[CMS-HIN-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-010/index.html), [PRC 96 (2017) 064902](https://doi.org/10.1103/PhysRevC.96.064902) (2017-12-05), [arXiv:1708.07113](https://arxiv.org/abs/1708.07113) (2017-08-23).
* 671 $−$ “Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-001/index.html), [PRD 97 (2018) 072006](https://doi.org/10.1103/PhysRevD.97.072006) (2018-04-10), [arXiv:1708.05379](https://arxiv.org/abs/1708.05379) (2017-08-17).
* 670 $−$ “Nuclear modification factor of $D^{0}$ mesons in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-001/index.html), [PLB 782 (2018) 474](https://doi.org/10.1016/j.physletb.2018.05.074) (2018-07-10), [arXiv:1708.04962](https://arxiv.org/abs/1708.04962) (2017-08-16).
* 669 $−$ “Search for resonant and nonresonant Higgs boson pair production in the $b‾ℓνℓν$ final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-006/index.html), [JHEP 01 (2018) 054](https://doi.org/10.1007/JHEP01%282018%29054) (2018-01-12), [arXiv:1708.04188](https://arxiv.org/abs/1708.04188) (2017-08-14).
* 668 $−$ “Measurement of prompt $D^{0}$ meson azimuthal anisotropy in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-007/index.html), [PRL 120 (2018) 202301](https://doi.org/10.1103/PhysRevLett.120.202301) (2018-05-17), [arXiv:1708.03497](https://arxiv.org/abs/1708.03497) (2017-08-11).
* 667 $−$ “Measurement of vector boson scattering and constraints on anomalous quartic couplings from events with four leptons and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-17-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-17-006/index.html), [PLB 774 (2017) 682](https://doi.org/10.1016/j.physletb.2017.10.020) (2017-11-10), [arXiv:1708.02812](https://arxiv.org/abs/1708.02812) (2017-08-09).
* 666 $−$ “Search for vector-like light-flavor quark partners in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-B2G-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-016/index.html), [PRD 97 (2018) 072008](https://doi.org/10.1103/PhysRevD.97.072008) (2018-04-11), [arXiv:1708.02510](https://arxiv.org/abs/1708.02510) (2017-08-08).
* 665 $−$ “Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the LHC"
[CMS-HIN-17-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-17-001/index.html), [PRC 97 (2018) 044912](https://doi.org/10.1103/PhysRevC.97.044912) (2018-04-24), [arXiv:1708.01602](https://arxiv.org/abs/1708.01602) (2017-08-04).
* 664 $−$ “Search for single production of a vector-like T quark decaying to a Z boson and a top quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-007/index.html), [PLB 781 (2018) 574](https://doi.org/10.1016/j.physletb.2018.04.036) (2018-06-10), [arXiv:1708.01062](https://arxiv.org/abs/1708.01062) (2017-08-03).
* 663 $−$ “Observation of the Higgs boson decay to a pair of $τ$ leptons"
[CMS-HIG-16-043](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-043/index.html), [PLB 779 (2018) 283](https://doi.org/10.1016/j.physletb.2018.02.004) (2018-04-10), [arXiv:1708.00373](https://arxiv.org/abs/1708.00373) (2017-08-01).
* 662 $−$ “Search for a light pseudoscalar Higgs boson produced in association with bottom quarks in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-009/index.html), [JHEP 11 (2017) 010](https://doi.org/10.1007/JHEP11%282017%29010) (2017-11-06), [arXiv:1707.07283](https://arxiv.org/abs/1707.07283) (2017-07-23).
* 661 $−$ “Search for the pair production of third-generation squarks with two-body decays to a bottom or charm quark and a neutralino in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-032/index.html), [PLB 778 (2018) 263](https://doi.org/10.1016/j.physletb.2018.01.012) (2018-03-10), [arXiv:1707.07274](https://arxiv.org/abs/1707.07274) (2017-07-23).
* 660 $−$ “Search for supersymmetry in events with at least one photon, missing transverse momentum, and large transverse event activity in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-047](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-047/index.html), [JHEP 12 (2017) 142](https://doi.org/10.1007/JHEP12%282017%29142) (2017-12-28), [arXiv:1707.06193](https://arxiv.org/abs/1707.06193) (2017-07-19).
* 659 $−$ “Measurement of the differential cross sections for the associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-005/index.html), [PRD 96 (2017) 072005](https://doi.org/10.1103/PhysRevD.96.072005) (2017-10-27), [arXiv:1707.05979](https://arxiv.org/abs/1707.05979) (2017-07-19).
* 658 $−$ “Search for natural supersymmetry in events with top quark pairs and photons in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-009/index.html), [JHEP 03 (2018) 167](https://doi.org/10.1007/JHEP03%282018%29167) (2018-03-27), [arXiv:1707.03325](https://arxiv.org/abs/1707.03325) (2017-07-10).
* 657 $−$ “Search for direct production of supersymmetric partners of the top quark in the all-jets final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-049](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-049/index.html), [JHEP 10 (2017) 005](https://doi.org/10.1007/JHEP10%282017%29005) (2017-10-02), [arXiv:1707.03316](https://arxiv.org/abs/1707.03316) (2017-07-10).
* 656 $−$ “Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-002/index.html), [PLB 778 (2018) 101](https://doi.org/10.1016/j.physletb.2018.01.001) (2018-03-10), [arXiv:1707.02909](https://arxiv.org/abs/1707.02909) (2017-07-10).
* 655 $−$ “Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-002/index.html), [EPJC 77 (2017) 636](https://doi.org/10.1140/epjc/s10052-017-5192-z) (2017-09-22), [arXiv:1707.01303](https://arxiv.org/abs/1707.01303) (2017-07-05).
* 654 $−$ “Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state"
[CMS-HIG-17-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-17-011/index.html), [PLB 775 (2017) 1](https://doi.org/10.1016/j.physletb.2017.10.021) (2017-12-10), [arXiv:1707.00541](https://arxiv.org/abs/1707.00541) (2017-07-03).
* 653 $−$ “A search for Higgs boson pair production in the $bbττ$ final state in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-15-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-013/index.html), [PRD 96 (2017) 072004](https://doi.org/10.1103/PhysRevD.96.072004) (2017-10-20), [arXiv:1707.00350](https://arxiv.org/abs/1707.00350) (2017-07-03).
* 652 $−$ “Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-004/index.html), [PRD 96 (2017) 112003](https://doi.org/10.1103/PhysRevD.96.112003) (2017-12-05), [arXiv:1706.10194](https://arxiv.org/abs/1706.10194) (2017-06-30).
* 651 $−$ “Search for electroweak production of charginos and neutralinos in WH events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-043](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-043/index.html), [JHEP 11 (2017) 029](https://doi.org/10.1007/JHEP11%282017%29029) (2017-11-08), [arXiv:1706.09933](https://arxiv.org/abs/1706.09933) (2017-06-30).
* 650 $−$ “Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-16-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-041/index.html), [JHEP 11 (2017) 047](https://doi.org/10.1007/JHEP11%282017%29047) (2017-11-09), [arXiv:1706.09936](https://arxiv.org/abs/1706.09936) (2017-06-30).
* 649 $−$ “Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-026/index.html), [PLB 775 (2017) 315](https://doi.org/10.1016/j.physletb.2017.11.001) (2017-12-10), [arXiv:1706.08578](https://arxiv.org/abs/1706.08578) (2017-06-26).
* 648 $−$ “Exclusive and semi-exclusive $π^{+}π^{−}$ production in proton-proton collisions at $\sqrt{s}=$ 7 TeV"
[CMS-FSQ-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-004/index.html), Superseded by FSQ-16-006, [arXiv:1706.08310](https://arxiv.org/abs/1706.08310) (2017-06-25).
* 647 $−$ “Measurement of the semileptonic $t‾$+$γ$ production cross section in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-008/index.html), [JHEP 10 (2017) 006](https://doi.org/10.1007/JHEP10%282017%29006) (2017-10-02), [arXiv:1706.08128](https://arxiv.org/abs/1706.08128) (2017-06-25).
* 646 $−$ “Suppression of excited $Υ$ states relative to the ground state in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-008/index.html), [PRL 120 (2018) 142301](https://doi.org/10.1103/PhysRevLett.120.142301) (2018-04-02), [arXiv:1706.05984](https://arxiv.org/abs/1706.05984) (2017-06-19).
* 645 $−$ “Measurements of jet charge with dijet events in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-003/index.html), [JHEP 10 (2017) 131](https://doi.org/10.1007/JHEP10%282017%29131) (2017-10-19), [arXiv:1706.05868](https://arxiv.org/abs/1706.05868) (2017-06-18).
* 644 $−$ “Particle-flow reconstruction and global event description with the CMS detector"
[CMS-PRF-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/PRF-14-001/index.html), [JINST 12 (2017) P10003](https://doi.org/10.1088/1748-0221/12/10/P10003) (2017-10-06), [arXiv:1706.04965](https://arxiv.org/abs/1706.04965) (2017-06-15).
* 643 $−$ “Search for top squark pair production in pp collisions at $\sqrt{s}=$ 13 TeV using single lepton events"
[CMS-SUS-16-051](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-051/index.html), [JHEP 10 (2017) 019](https://doi.org/10.1007/JHEP10%282017%29019) (2017-10-03), [arXiv:1706.04402](https://arxiv.org/abs/1706.04402) (2017-06-14).
* 642 $−$ “Searches for W’ bosons decaying to a top quark and a bottom quark in proton-proton collisions at 13 TeV"
[CMS-B2G-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-016/index.html), [JHEP 08 (2017) 029](https://doi.org/10.1007/JHEP08%282017%29029) (2017-08-08), [arXiv:1706.04260](https://arxiv.org/abs/1706.04260) (2017-06-13).
* 641 $−$ “Search for new physics in the monophoton final state in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-039](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-039/index.html), [JHEP 10 (2017) 073](https://doi.org/10.1007/JHEP10%282017%29073) (2017-10-11), [arXiv:1706.03794](https://arxiv.org/abs/1706.03794) (2017-06-12).
* 640 $−$ “Search for pair production of vector-like T and B quarks in single-lepton final states using boosted jet substructure techniques at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-024/index.html), [JHEP 11 (2017) 085](https://doi.org/10.1007/JHEP11%282017%29085) (2017-11-15), [arXiv:1706.03408](https://arxiv.org/abs/1706.03408) (2017-06-12).
* 639 $−$ “Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-005/index.html), [EPJC 77 (2017) 845](https://doi.org/10.1140/epjc/s10052-017-5317-4) (2017-12-08), [arXiv:1706.02581](https://arxiv.org/abs/1706.02581) (2017-06-08).
* 638 $−$ “Search for top quark partners with charge 5/3 in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-15-006/index.html), [JHEP 08 (2017) 073](https://doi.org/10.1007/JHEP08%282017%29073) (2017-08-18), [arXiv:1705.10967](https://arxiv.org/abs/1705.10967) (2017-05-31).
* 637 $−$ “Search for low mass vector resonances decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-030/index.html), [PRL 119 (2017) 111802](https://doi.org/10.1103/PhysRevLett.119.111802) (2017-09-15), [arXiv:1705.10532](https://arxiv.org/abs/1705.10532) (2017-05-30).
* 636 $−$ “Measurements of $t‾$ cross sections in association with b jets and inclusive jets and their ratio using dilepton final states in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-010/index.html), [PLB 776 (2018) 355](https://doi.org/10.1016/j.physletb.2017.11.043) (2018-01-10), [arXiv:1705.10141](https://arxiv.org/abs/1705.10141) (2017-05-29).
* 635 $−$ “Combination of searches for heavy resonances decaying to WW, WZ, ZZ, WH, and ZH boson pairs in proton-proton collisions at $\sqrt{s}=$ 8 and 13 TeV"
[CMS-B2G-16-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-007/index.html), [PLB 774 (2017) 533](https://doi.org/10.1016/j.physletb.2017.09.083) (2017-11-10), [arXiv:1705.09171](https://arxiv.org/abs/1705.09171) (2017-05-25).
* 634 $−$ “Measurement of $B^{\pm }$ mesons differential production cross sections in pp and PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-16-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-011/index.html), [PRL 119 (2017) 152301](https://doi.org/10.1103/PhysRevLett.119.152301) (2017-10-13), [arXiv:1705.04727](https://arxiv.org/abs/1705.04727) (2017-05-12).
* 633 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}=$ 13 TeV in the single-lepton final state using the sum of masses of large-radius jets"
[CMS-SUS-16-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-037/index.html), [PRL 119 (2017) 151802](https://doi.org/10.1103/PhysRevLett.119.151802) (2017-10-13), [arXiv:1705.04673](https://arxiv.org/abs/1705.04673) (2017-05-12).
* 632 $−$ “Search for new phenomena with the $M\_{T2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-036/index.html), [EPJC 77 (2017) 710](https://doi.org/10.1140/epjc/s10052-017-5267-x) (2017-10-26), [arXiv:1705.04650](https://arxiv.org/abs/1705.04650) (2017-05-12).
* 631 $−$ “Search for charged Higgs bosons produced via vector boson fusion and decaying into a pair of W and Z bosons using proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-16-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-027/index.html), [PRL 119 (2017) 141802](https://doi.org/10.1103/PhysRevLett.119.141802) (2017-10-04), [arXiv:1705.02942](https://arxiv.org/abs/1705.02942) (2017-05-08).
* 630 $−$ “Measurement of the triple-differential dijet cross section in proton-proton collisions at $\sqrt{s}=$ 8 TeV and constraints on parton distribution functions"
[CMS-SMP-16-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-011/index.html), [EPJC 77 (2017) 746](https://doi.org/10.1140/epjc/s10052-017-5286-7) (2017-11-07), [arXiv:1705.02628](https://arxiv.org/abs/1705.02628) (2017-05-07).
* 629 $−$ “Search for black holes in high-multiplicity final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-007/index.html), [PLB 774 (2017) 279](https://doi.org/10.1016/j.physletb.2017.09.053) (2017-11-10), [arXiv:1705.01403](https://arxiv.org/abs/1705.01403) (2017-05-03).
* 628 $−$ “Search for supersymmetry in multijet events with missing transverse momentum in proton-proton collisions at 13 TeV"
[CMS-SUS-16-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-033/index.html), [PRD 96 (2017) 032003](https://doi.org/10.1103/PhysRevD.96.032003) (2017-08-25), [arXiv:1704.07781](https://arxiv.org/abs/1704.07781) (2017-04-25).
* 627 $−$ “Search for physics beyond the standard model in events with two leptons of same sign, missing transverse momentum, and jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-035/index.html), [EPJC 77 (2017) 578](https://doi.org/10.1140/epjc/s10052-017-5079-z) (2017-09-01), [arXiv:1704.07323](https://arxiv.org/abs/1704.07323) (2017-04-24).
* 626 $−$ “Measurement of the top quark mass in the dileptonic $t‾$ decay channel using the mass observables $M\_{bℓ}$, $M\_{T2}$, and $M\_{bℓν}$ in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-008/index.html), [PRD 96 (2017) 032002](https://doi.org/10.1103/PhysRevD.96.032002) (2017-08-22), [arXiv:1704.06142](https://arxiv.org/abs/1704.06142) (2017-04-20).
* 625 $−$ “Search for $t‾$ resonances in highly-boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-015/index.html), [JHEP 07 (2017) 001](https://doi.org/10.1007/JHEP07%282017%29001) (2017-07-03), [arXiv:1704.03366](https://arxiv.org/abs/1704.03366) (2017-04-11).
* 624 $−$ “Measurements of the $pp\rightarrow Wγγ$ and $pp\rightarrow Zγγ$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-008/index.html), [JHEP 10 (2017) 072](https://doi.org/10.1007/JHEP10%282017%29072) (2017-10-11), [arXiv:1704.00366](https://arxiv.org/abs/1704.00366) (2017-04-03).
* 623 $−$ “Search for new physics with dijet angular distributions in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-009/index.html), [JHEP 07 (2017) 013](https://doi.org/10.1007/JHEP07%282017%29013) (2017-07-05), [arXiv:1703.09986](https://arxiv.org/abs/1703.09986) (2017-03-29).
* 622 $−$ “Search for a heavy resonance decaying to a top quark and a vector-like top quark at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-013/index.html), [JHEP 09 (2017) 053](https://doi.org/10.1007/JHEP09%282017%29053) (2017-09-13), [arXiv:1703.06352](https://arxiv.org/abs/1703.06352) (2017-03-18).
* 621 $−$ “Search for anomalous couplings in boosted $WW/WZ\rightarrow ℓνq‾$ production in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-008/index.html), [PLB 772 (2017) 21](https://doi.org/10.1016/j.physletb.2017.06.009) (2017-09-10), [arXiv:1703.06095](https://arxiv.org/abs/1703.06095) (2017-03-17).
* 620 $−$ “Measurement of the jet mass in highly boosted $t‾$ events from pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-15-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-015/index.html), [EPJC 77 (2017) 467](https://doi.org/10.1140/epjc/s10052-017-5030-3) (2017-07-14), [arXiv:1703.06330](https://arxiv.org/abs/1703.06330) (2017-03-18).
* 619 $−$ “Search for associated production of dark matter with a Higgs boson decaying to $b\overline{b}$ or $γγ$ at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-012/index.html), [JHEP 10 (2017) 180](https://doi.org/10.1007/JHEP10%282017%29180) (2017-10-25), [arXiv:1703.05236](https://arxiv.org/abs/1703.05236) (2017-03-13).
* 618 $−$ “Search for third-generation scalar leptoquarks and heavy right-handed neutrinos in final states with two tau leptons and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-023/index.html), [JHEP 07 (2017) 121](https://doi.org/10.1007/JHEP07%282017%29121) (2017-07-26), [arXiv:1703.03995](https://arxiv.org/abs/1703.03995) (2017-03-11).
* 617 $−$ “Measurement of the top quark mass using single top quark events in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-001/index.html), [EPJC 77 (2017) 354](https://doi.org/10.1140/epjc/s10052-017-4912-8) (2017-05-29), [arXiv:1703.02530](https://arxiv.org/abs/1703.02530) (2017-03-07).
* 616 $−$ “Measurement of double-differential cross sections for top quark pair production in pp collisions at $\sqrt{s}=$ 8 TeV and impact on parton distribution functions"
[CMS-TOP-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-013/index.html), [EPJC 77 (2017) 459](https://doi.org/10.1140/epjc/s10052-017-4984-5) (2017-07-11), [arXiv:1703.01630](https://arxiv.org/abs/1703.01630) (2017-03-05).
* 615 $−$ “Search for dark matter produced with an energetic jet or a hadronically decaying W or Z boson at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-037/index.html), [JHEP 07 (2017) 014](https://doi.org/10.1007/JHEP07%282017%29014) (2017-07-05), [arXiv:1703.01651](https://arxiv.org/abs/1703.01651) (2017-03-05).
* 614 $−$ “Search for standard model production of four top quarks in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-016/index.html), [PLB 772 (2017) 336](https://doi.org/10.1016/j.physletb.2017.06.064) (2017-09-10), [arXiv:1702.06164](https://arxiv.org/abs/1702.06164) (2017-02-20).
* 613 $−$ “Measurement of the cross section for electroweak production of Z$γ$ in association with two jets and constraints on anomalous quartic gauge couplings in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-018/index.html), [PLB 770 (2017) 380](https://doi.org/10.1016/j.physletb.2017.04.071) (2017-07-10), [arXiv:1702.03025](https://arxiv.org/abs/1702.03025) (2017-02-09).
* 612 $−$ “Measurement of prompt and nonprompt $J/ψ$ production in pp and pPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-009/index.html), [EPJC 77 (2017) 269](https://doi.org/10.1140/epjc/s10052-017-4828-3) (2017-04-27), [arXiv:1702.01462](https://arxiv.org/abs/1702.01462) (2017-02-06).
* 611 $−$ “Search for associated production of a Z boson with a single top quark and for tZ flavour-changing interactions in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-12-039](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-039/index.html), [JHEP 07 (2017) 003](https://doi.org/10.1007/JHEP07%282017%29003) (2017-07-03), [arXiv:1702.01404](https://arxiv.org/abs/1702.01404) (2017-02-05).
* 610 $−$ “Study of jet quenching with Z+jet correlations in PbPb and pp collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-15-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-013/index.html), [PRL 119 (2017) 082301](https://doi.org/10.1103/PhysRevLett.119.082301) (2017-08-23), [arXiv:1702.01060](https://arxiv.org/abs/1702.01060) (2017-02-03).
* 609 $−$ “Azimuthal anisotropy of charged particles with transverse momentum up to 100 GeV/$c$ in PbPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-15-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-014/index.html), [PLB 776 (2017) 195](https://doi.org/10.1016/j.physletb.2017.11.041) (2018-01-10), [arXiv:1702.00630](https://arxiv.org/abs/1702.00630) (2017-02-02).
* 608 $−$ “Measurement of the inclusive energy spectrum in the very forward direction in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-16-002/index.html), [JHEP 08 (2017) 046](https://doi.org/10.1007/JHEP08%282017%29046) (2017-08-11), [arXiv:1701.08695](https://arxiv.org/abs/1701.08695) (2017-01-30).
* 607 $−$ “Search for single production of vector-like quarks decaying into a b quark and a W boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-006/index.html), [PLB 772 (2017) 634](https://doi.org/10.1016/j.physletb.2017.07.022) (2017-09-10), [arXiv:1701.08328](https://arxiv.org/abs/1701.08328) (2017-01-28).
* 606 $−$ “Search for single production of vector-like quarks decaying to a Z boson and a top or a bottom quark in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-001/index.html), [JHEP 05 (2017) 029](https://doi.org/10.1007/JHEP05%282017%29029) (2017-05-05), [arXiv:1701.07409](https://arxiv.org/abs/1701.07409) (2017-01-25).
* 605 $−$ “Search for new phenomena with multiple charged leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-003/index.html), [EPJC 77 (2017) 635](https://doi.org/10.1140/epjc/s10052-017-5182-1) (2017-09-22), [arXiv:1701.06940](https://arxiv.org/abs/1701.06940) (2017-01-24).
* 604 $−$ “Measurement of the $t‾$ production cross section using events with one lepton and at least one jet in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-006/index.html), [JHEP 09 (2017) 051](https://doi.org/10.1007/JHEP09%282017%29051) (2017-09-13), [arXiv:1701.06228](https://arxiv.org/abs/1701.06228) (2017-01-22).
* 603 $−$ “Search for dark matter and unparticles in events with a Z boson and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-010/index.html), [JHEP 03 (2017) 061](https://doi.org/10.1007/JHEP03%282017%29061) (2017-03-10), [arXiv:1701.02042](https://arxiv.org/abs/1701.02042) (2017-01-08).
* 602 $−$ “Mechanical stability of the CMS strip tracker measured with a laser alignment system"
[CMS-TRK-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-15-002/index.html), [JINST 12 (2017) P04023](https://doi.org/10.1088/1748-0221/12/04/P04023) (2017-04-21), [arXiv:1701.02022](https://arxiv.org/abs/1701.02022) (2017-01-08).
* 601 $−$ “Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-16-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-015/index.html), [JHEP 10 (2017) 076](https://doi.org/10.1007/JHEP10%282017%29076) (2017-10-11), [arXiv:1701.02032](https://arxiv.org/abs/1701.02032) (2017-01-08).
* 600 $−$ “Search for supersymmetry in the all-hadronic final state using top quark tagging in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-16-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-009/index.html), [PRD 96 (2017) 012004](https://doi.org/10.1103/PhysRevD.96.012004) (2017-07-25), [arXiv:1701.01954](https://arxiv.org/abs/1701.01954) (2017-01-08).
* 599 $−$ “Search for leptophobic Z’ bosons decaying into four-lepton final states in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-006/index.html), [PLB 773 (2017) 563](https://doi.org/10.1016/j.physletb.2017.08.069) (2017-10-10), [arXiv:1701.01345](https://arxiv.org/abs/1701.01345) (2017-01-05).
* 598 $−$ “Search for high-mass $Zγ$ resonances in proton-proton collisions at $\sqrt{s}=$ 8 and 13 TeV using jet substructure techniques"
[CMS-EXO-16-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-025/index.html), [PLB 772 (2017) 363](https://doi.org/10.1016/j.physletb.2017.06.062) (2017-09-10), [arXiv:1612.09516](https://arxiv.org/abs/1612.09516) (2016-12-30).
* 597 $−$ “Measurement of electroweak-induced production of $Wγ$ with two jets in pp collisions at $\sqrt{s}=$ 8 TeV and constraints on anomalous quartic gauge couplings"
[CMS-SMP-14-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-011/index.html), [JHEP 06 (2017) 106](https://doi.org/10.1007/JHEP06%282017%29106) (2017-06-20), [arXiv:1612.09256](https://arxiv.org/abs/1612.09256) (2016-12-29).
* 596 $−$ “Search for heavy gauge W’ bosons in events with an energetic lepton and large missing transverse momentum at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-006/index.html), [PLB 770 (2017) 278](https://doi.org/10.1016/j.physletb.2017.04.043) (2017-07-10), [arXiv:1612.09274](https://arxiv.org/abs/1612.09274) (2016-12-29).
* 595 $−$ “Search for massive resonances decaying into WW, WZ or ZZ bosons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-004/index.html), [JHEP 03 (2017) 162](https://doi.org/10.1007/JHEP03%282017%29162) (2017-03-30), [arXiv:1612.09159](https://arxiv.org/abs/1612.09159) (2016-12-29).
* 594 $−$ “Measurements of the charm jet cross section and nuclear modification factor in pPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-15-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-012/index.html), [PLB 772 (2017) 306](https://doi.org/10.1016/j.physletb.2017.06.053) (2017-09-10), [arXiv:1612.08972](https://arxiv.org/abs/1612.08972) (2016-12-29).
* 593 $−$ “Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states"
[CMS-B2G-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-005/index.html), [JHEP 04 (2017) 136](https://doi.org/10.1007/JHEP04%282017%29136) (2017-04-21), [arXiv:1612.05336](https://arxiv.org/abs/1612.05336) (2016-12-16).
* 592 $−$ “Searches for pair production of third-generation squarks in $\sqrt{s}=$ 13 TeV pp collisions"
[CMS-SUS-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-16-008/index.html), [EPJC 77 (2017) 327](https://doi.org/10.1140/epjc/s10052-017-4853-2) (2017-05-18), [arXiv:1612.03877](https://arxiv.org/abs/1612.03877) (2016-12-12).
* 591 $−$ “Search for heavy neutrinos or third-generation leptoquarks in final states with two hadronically decaying $τ$ leptons and two jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-016/index.html), [JHEP 03 (2017) 077](https://doi.org/10.1007/JHEP03%282017%29077) (2017-03-14), [arXiv:1612.01190](https://arxiv.org/abs/1612.01190) (2016-12-05).
* 590 $−$ “Search for single production of a heavy vector-like T quark decaying to a Higgs boson and a top quark with a lepton and jets in the final state"
[CMS-B2G-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-15-008/index.html), [PLB 771 (2017) 80](https://doi.org/10.1016/j.physletb.2017.05.019) (2017-08-10), [arXiv:1612.00999](https://arxiv.org/abs/1612.00999) (2016-12-03).
* 589 $−$ “Search for CP violation in $t‾$ production and decay in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-001/index.html), [JHEP 03 (2017) 101](https://doi.org/10.1007/JHEP03%282017%29101) (2017-03-20), [arXiv:1611.08931](https://arxiv.org/abs/1611.08931) (2016-11-28).
* 588 $−$ “Search for supersymmetry in events with photons and missing transverse energy in pp collisions at 13 TeV"
[CMS-SUS-15-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-012/index.html), [PLB 769 (2017) 391](https://doi.org/10.1016/j.physletb.2017.04.005) (2017-06-10), [arXiv:1611.06604](https://arxiv.org/abs/1611.06604) (2016-11-20).
* 587 $−$ “Search for heavy resonances decaying to tau lepton pairs in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-008/index.html), [JHEP 02 (2017) 048](https://doi.org/10.1007/JHEP02%282017%29048) (2017-02-09), [arXiv:1611.06594](https://arxiv.org/abs/1611.06594) (2016-11-20).
* 586 $−$ “Measurements of the associated production of a Z boson and b jets in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-010/index.html), [EPJC 77 (2017) 751](https://doi.org/10.1140/epjc/s10052-017-5140-y) (2017-11-08), [arXiv:1611.06507](https://arxiv.org/abs/1611.06507) (2016-11-20).
* 585 $−$ “Measurement of the $t‾$ production cross section using events in the e$μ$ final state in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-005/index.html), [EPJC 77 (2017) 172](https://doi.org/10.1140/epjc/s10052-017-4718-8) (2017-03-20), [arXiv:1611.04040](https://arxiv.org/abs/1611.04040) (2016-11-13).
* 584 $−$ “Measurements of differential production cross sections for a Z boson in association with jets in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-013/index.html), [JHEP 04 (2017) 022](https://doi.org/10.1007/JHEP04%282017%29022) (2017-04-05), [arXiv:1611.03844](https://arxiv.org/abs/1611.03844) (2016-11-11).
* 583 $−$ “Search for dijet resonances in proton-proton collisions at $\sqrt{s}=$ 13 TeV and constraints on dark matter and other models"
[CMS-EXO-16-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-032/index.html), [PLB 769 (2017) 520](https://doi.org/10.1016/j.physletb.2017.02.012) (2017-06-10), [arXiv:1611.03568](https://arxiv.org/abs/1611.03568) (2016-11-11).
* 582 $−$ “Suppression of $Υ$(1S), $Υ$(2S), and $Υ$(3S) quarkonium states in PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 2.76 TeV"
[CMS-HIN-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-001/index.html), [PLB 770 (2017) 357](https://doi.org/10.1016/j.physletb.2017.04.031) (2017-07-10), [arXiv:1611.01510](https://arxiv.org/abs/1611.01510) (2016-11-04).
* 581 $−$ “Relative modification of prompt $ψ\left(2S\right)$ and $J/ψ$ yields from pp to PbPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-16-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-004/index.html), [PRL 118 (2017) 162301](https://doi.org/10.1103/PhysRevLett.118.162301) (2017-04-20), [arXiv:1611.01438](https://arxiv.org/abs/1611.01438) (2016-11-04).
* 580 $−$ “Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-15-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-015/index.html), [JHEP 04 (2017) 039](https://doi.org/10.1007/JHEP04%282017%29039) (2017-04-07), [arXiv:1611.01664](https://arxiv.org/abs/1611.01664) (2016-11-05).
* 579 $−$ “A search for new phenomena in pp collisions at $\sqrt{s}=$ 13 TeV in final states with missing transverse momentum and at least one jet using the $α\_{T}$ variable"
[CMS-SUS-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-005/index.html), [EPJC 77 (2017) 294](https://doi.org/10.1140/epjc/s10052-017-4787-8) (2017-05-08), [arXiv:1611.00338](https://arxiv.org/abs/1611.00338) (2016-11-01).
* 578 $−$ “Measurement of the mass difference between top quark and antiquark in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-12-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-031/index.html), [PLB 770 (2017) 50](https://doi.org/10.1016/j.physletb.2017.04.028) (2017-07-10), [arXiv:1610.09551](https://arxiv.org/abs/1610.09551) (2016-10-29).
* 577 $−$ “Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s}=$ 7, 8, and 13 TeV"
[CMS-HIG-16-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-16-016/index.html), [JHEP 02 (2017) 135](https://doi.org/10.1007/JHEP02%282017%29135) (2017-02-28), [arXiv:1610.09218](https://arxiv.org/abs/1610.09218) (2016-10-28).
* 576 $−$ “Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks"
[CMS-B2G-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-16-003/index.html), [PLB 768 (2017) 137](https://doi.org/10.1016/j.physletb.2017.02.040) (2017-05-10), [arXiv:1610.08066](https://arxiv.org/abs/1610.08066) (2016-10-25).
* 575 $−$ “Observation of $Υ\left(1S\right)$ pair production in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-008/index.html), [JHEP 05 (2017) 013](https://doi.org/10.1007/JHEP05%282017%29013) (2017-05-03), [arXiv:1610.07095](https://arxiv.org/abs/1610.07095) (2016-10-23).
* 574 $−$ “Search for $R$-parity violating supersymmetry with displaced vertices in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-020/index.html), [PRD 95 (2017) 012009](https://doi.org/10.1103/PhysRevD.95.012009) (2017-01-25), [arXiv:1610.05133](https://arxiv.org/abs/1610.05133) (2016-10-17).
* 573 $−$ “Search for electroweak production of charginos in final states with two $τ$ leptons in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-022/index.html), [JHEP 04 (2017) 018](https://doi.org/10.1007/JHEP04%282017%29018) (2017-04-04), [arXiv:1610.04870](https://arxiv.org/abs/1610.04870) (2016-10-16).
* 572 $−$ “Search for top quark decays via Higgs-boson-mediated flavor-changing neutral currents in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-13-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-017/index.html), [JHEP 02 (2017) 079](https://doi.org/10.1007/JHEP02%282017%29079) (2017-02-15), [arXiv:1610.04857](https://arxiv.org/abs/1610.04857) (2016-10-16).
* 571 $−$ “Measurements of differential cross sections for associated production of a W boson and jets in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-023/index.html), [PRD 95 (2017) 052002](https://doi.org/10.1103/PhysRevD.95.052002) (2017-03-13), [arXiv:1610.04222](https://arxiv.org/abs/1610.04222) (2016-10-13).
* 570 $−$ “Measurement of differential cross sections for top quark pair production using the lepton+jets final state in proton-proton collisions at 13 TeV"
[CMS-TOP-16-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-008/index.html), [PRD 95 (2017) 092001](https://doi.org/10.1103/PhysRevD.95.092001) (2017-05-01), [arXiv:1610.04191](https://arxiv.org/abs/1610.04191) (2016-10-13).
* 569 $−$ “Search for anomalous Wtb couplings and flavour-changing neutral currents in $t$-channel single top quark production in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-14-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-007/index.html), [JHEP 02 (2017) 028](https://doi.org/10.1007/JHEP02%282017%29028) (2017-02-07), [arXiv:1610.03545](https://arxiv.org/abs/1610.03545) (2016-10-11).
* 568 $−$ “Search for high-mass Z$γ$ resonances in $e^{+}e^{−}γ$ and $μ^{+}μ^{−}γ$ final states in proton-proton collisions at $\sqrt{s}=$ 8 and 13 TeV"
[CMS-EXO-16-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-021/index.html), [JHEP 01 (2017) 076](https://doi.org/10.1007/JHEP01%282017%29076) (2017-01-17), [arXiv:1610.02960](https://arxiv.org/abs/1610.02960) (2016-10-10).
* 567 $−$ “Suppression and azimuthal anisotropy of prompt and nonprompt $J/ψ$ production in PbPb collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-005/index.html), [EPJC 77 (2017) 252](https://doi.org/10.1140/epjc/s10052-017-4781-1) (2017-04-19), [arXiv:1610.00613](https://arxiv.org/abs/1610.00613) (2016-10-03).
* 566 $−$ “Cross section measurement of $t$-channel single top quark production in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-TOP-16-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-16-003/index.html), [PLB 772 (2017) 752](https://doi.org/10.1016/j.physletb.2017.07.047) (2017-09-10), [arXiv:1610.00678](https://arxiv.org/abs/1610.00678) (2016-10-03).
* 565 $−$ “Observation of charge-dependent azimuthal correlations in pPb collisions and its implication for the search for the chiral magnetic effect"
[CMS-HIN-16-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-009/index.html), [PRL 118 (2017) 122301](https://doi.org/10.1103/PhysRevLett.118.122301) (2017-03-24), [arXiv:1610.00263](https://arxiv.org/abs/1610.00263) (2016-10-01).
* 564 $−$ “Search for supersymmetry in events with one lepton and multiple jets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-006/index.html), [PRD 95 (2017) 012011](https://doi.org/10.1103/PhysRevD.95.012011) (2017-01-27), [arXiv:1609.09386](https://arxiv.org/abs/1609.09386) (2016-09-29).
* 563 $−$ “Search for long-lived charged particles in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-010/index.html), [PRD 94 (2016) 112004](https://doi.org/10.1103/PhysRevD.94.112004) (2016-12-07), [arXiv:1609.08382](https://arxiv.org/abs/1609.08382) (2016-09-27).
* 562 $−$ “Inclusive search for supersymmetry using razor variables in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-15-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-004/index.html), [PRD 95 (2017) 012003](https://doi.org/10.1103/PhysRevD.95.012003) (2017-01-06), [arXiv:1609.07658](https://arxiv.org/abs/1609.07658) (2016-09-24).
* 561 $−$ “Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=$ 7 and 8 TeV and search for anomalous triple gauge couplings at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-014/index.html), [EPJC 77 (2017) 236](https://doi.org/10.1140/epjc/s10052-017-4730-z) (2017-04-12), [arXiv:1609.05721](https://arxiv.org/abs/1609.05721) (2016-09-19).
* 560 $−$ “Search for narrow resonances in dilepton mass spectra in proton-proton collisions at $\sqrt{s}=$ 13 TeV and combination with 8 TeV data"
[CMS-EXO-15-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-005/index.html), [PLB 768 (2017) 57](https://doi.org/10.1016/j.physletb.2017.02.010) (2017-05-10), [arXiv:1609.05391](https://arxiv.org/abs/1609.05391) (2016-09-18).
* 559 $−$ “Measurement of inclusive jet cross sections in pp and PbPb collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-005/index.html), [PRC 96 (2017) 015202](https://doi.org/10.1103/PhysRevC.96.015202) (2017-07-17), [arXiv:1609.05383](https://arxiv.org/abs/1609.05383) (2016-09-17).
* 558 $−$ “Measurement and QCD analysis of double-differential inclusive jet cross sections in pp collisions at $\sqrt{s}=$ 8 TeV and ratios to 2.76 and 7 TeV"
[CMS-SMP-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-001/index.html), [JHEP 03 (2017) 156](https://doi.org/10.1007/JHEP03%282017%29156) (2017-03-29), [arXiv:1609.05331](https://arxiv.org/abs/1609.05331) (2016-09-17).
* 557 $−$ “Studies of inclusive four-jet production with two b-tagged jets in proton-proton collisions at 7 TeV"
[CMS-FSQ-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-010/index.html), [PRD 94 (2016) 112005](https://doi.org/10.1103/PhysRevD.94.112005) (2016-12-08), [arXiv:1609.03489](https://arxiv.org/abs/1609.03489) (2016-09-12).
* 556 $−$ “Decomposing transverse momentum balance contributions for quenched jets in PbPb collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-15-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-011/index.html), [JHEP 11 (2016) 055](https://doi.org/10.1007/JHEP11%282016%29055) (2016-11-09), [arXiv:1609.02466](https://arxiv.org/abs/1609.02466) (2016-09-08).
* 555 $−$ “Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search"
[CMS-EXO-16-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-027/index.html), [PLB 767 (2017) 147](https://doi.org/10.1016/j.physletb.2017.01.027) (2017-04-10), [arXiv:1609.02507](https://arxiv.org/abs/1609.02507) (2016-09-08).
* 554 $−$ “The CMS trigger system"
[CMS-TRG-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRG-12-001/index.html), [JINST 12 (2017) P01020](https://doi.org/10.1088/1748-0221/12/01/P01020) (2017-01-24), [arXiv:1609.02366](https://arxiv.org/abs/1609.02366) (2016-09-04).
* 553 $−$ “Measurement of the differential inclusive $B^{+}$ hadron cross sections in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-BPH-15-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-15-004/index.html), [PLB 771 (2017) 435](https://doi.org/10.1016/j.physletb.2017.05.074) (2017-08-10), [arXiv:1609.00873](https://arxiv.org/abs/1609.00873) (2016-09-04).
* 552 $−$ “Measurement of the production cross section of a W boson in association with two b jets in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-020/index.html), [EPJC 77 (2017) 92](https://doi.org/10.1140/epjc/s10052-016-4573-z) (2017-02-11), [arXiv:1608.07561](https://arxiv.org/abs/1608.07561) (2016-08-26).
* 551 $−$ “Measurement of the mass of the top quark in decays with a $J/ψ$ meson in pp collisions at 8 TeV"
[CMS-TOP-15-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-014/index.html), [JHEP 12 (2016) 123](https://doi.org/10.1007/JHEP12%282016%29123) (2016-12-22), [arXiv:1608.03560](https://arxiv.org/abs/1608.03560) (2016-08-11).
* 550 $−$ “Search for new phenomena in events with high jet multiplicity and low missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-001/index.html), [PLB 770 (2017) 257](https://doi.org/10.1016/j.physletb.2017.01.073) (2017-07-10), [arXiv:1608.01224](https://arxiv.org/abs/1608.01224) (2016-08-03).
* 549 $−$ “Measurement of the ZZ production cross section and $Z\rightarrow ℓ^{+}ℓ^{−}ℓ^{′+}ℓ^{′−}$ branching fraction in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-001/index.html), [PLB 763 (2016) 280](https://doi.org/10.1016/j.physletb.2016.10.054) (2016-12-10), [arXiv:1607.08834](https://arxiv.org/abs/1607.08834) (2016-07-29).
* 548 $−$ “Measurement of electroweak production of a W boson and two forward jets in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-012/index.html), [JHEP 11 (2016) 147](https://doi.org/10.1007/JHEP11%282016%29147) (2016-11-24), [arXiv:1607.06975](https://arxiv.org/abs/1607.06975) (2016-07-23).
* 547 $−$ “Measurement of the WZ production cross section in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-16-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-16-002/index.html), [PLB 766 (2017) 268](https://doi.org/10.1016/j.physletb.2017.01.011) (2017-03-10), [arXiv:1607.06943](https://arxiv.org/abs/1607.06943) (2016-07-23).
* 546 $−$ “Search for dark matter in proton-proton collisions at 8 TeV with missing transverse momentum and vector boson tagged jets"
[CMS-EXO-12-055](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-055/index.html), [JHEP 12 (2016) 083](https://doi.org/10.1007/JHEP12%282016%29083) (2016-12-16), [arXiv:1607.05764](https://arxiv.org/abs/1607.05764) (2016-07-20).
* 545 $−$ “Search for lepton flavour violating decays of the Higgs boson to $eτ$ and $eμ$ in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-040/index.html), [PLB 763 (2016) 472](https://doi.org/10.1016/j.physletb.2016.09.062) (2016-12-10), [arXiv:1607.03561](https://arxiv.org/abs/1607.03561) (2016-07-13).
* 544 $−$ “Jet energy scale and resolution in the CMS experiment in pp collisions at 8 TeV"
[CMS-JME-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-13-004/index.html), [JINST 12 (2017) P02014](https://doi.org/10.1088/1748-0221/12/02/P02014) (2017-02-22), [arXiv:1607.03663](https://arxiv.org/abs/1607.03663) (2016-07-13).
* 543 $−$ “Observation of the decay $B^{+}\rightarrow ψ\left(2S\right)ϕ\left(1020\right)K^{+}$ in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-009/index.html), [PLB 764 (2017) 66](https://doi.org/10.1016/j.physletb.2016.11.001) (2017-01-10), [arXiv:1607.02638](https://arxiv.org/abs/1607.02638) (2016-07-10).
* 542 $−$ “Measurement of the differential cross sections for top quark pair production as a function of kinematic event variables in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-12-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-042/index.html), [PRD 94 (2016) 052006](https://doi.org/10.1103/PhysRevD.94.052006) (2016-09-08), [arXiv:1607.00837](https://arxiv.org/abs/1607.00837) (2016-07-04).
* 541 $−$ “Search for new physics in final states with two opposite-sign, same-flavor leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-15-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-011/index.html), [JHEP 12 (2016) 013](https://doi.org/10.1007/JHEP12%282016%29013) (2016-12-05), [arXiv:1607.00915](https://arxiv.org/abs/1607.00915) (2016-07-04).
* 540 $−$ “Searches for $R$-parity-violating supersymmetry in pp collisions at $\sqrt{s}=$ 8 TeV in final states with 0-4 leptons"
[CMS-SUS-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-003/index.html), [PRD 94 (2016) 112009](https://doi.org/10.1103/PhysRevD.94.112009) (2016-12-29), [arXiv:1606.08076](https://arxiv.org/abs/1606.08076) (2016-06-26).
* 539 $−$ “Evidence for collectivity in pp collisions at the LHC"
[CMS-HIN-16-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-16-010/index.html), [PLB 765 (2017) 193](https://doi.org/10.1016/j.physletb.2016.12.009) (2017-02-10), [arXiv:1606.06198](https://arxiv.org/abs/1606.06198) (2016-06-20).
* 538 $−$ “Measurement of the transverse momentum spectra of weak vector bosons produced in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-012/index.html), [JHEP 02 (2017) 096](https://doi.org/10.1007/JHEP02%282017%29096) (2017-02-20), [arXiv:1606.05864](https://arxiv.org/abs/1606.05864) (2016-06-19).
* 537 $−$ “Search for resonant production of high-mass photon pairs in proton-proton collisions at $\sqrt{s}=$ 8 and 13 TeV"
[CMS-EXO-16-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-018/index.html), [PRL 117 (2016) 051802](https://doi.org/10.1103/PhysRevLett.117.051802) (2016-07-28), [arXiv:1606.04093](https://arxiv.org/abs/1606.04093) (2016-06-13).
* 536 $−$ “Phenomenological MSSM interpretation of CMS searches in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-SUS-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-010/index.html), [JHEP 10 (2016) 129](https://doi.org/10.1007/JHEP10%282016%29129) (2016-10-24), [arXiv:1606.03577](https://arxiv.org/abs/1606.03577) (2016-06-11).
* 535 $−$ “Measurements of the Higgs boson production and decay rates and constraints on its couplings from a combined ATLAS and CMS analysis of the LHC $pp$ collision data at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-HIG-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-002/index.html), [JHEP 08 (2016) 045](https://doi.org/10.1007/JHEP08%282016%29045) (2016-08-05), [arXiv:1606.02266](https://arxiv.org/abs/1606.02266) (2016-06-07).
* 534 $−$ “Measurement of the transverse momentum spectrum of the Higgs boson produced in pp collisions at $\sqrt{s}=$ 8 TeV using $H\rightarrow WW$ decays"
[CMS-HIG-15-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-010/index.html), [JHEP 03 (2017) 032](https://doi.org/10.1007/JHEP03%282017%29032) (2017-03-07), [arXiv:1606.01522](https://arxiv.org/abs/1606.01522) (2016-06-05).
* 533 $−$ “Search for dark matter and supersymmetry with a compressed mass spectrum in the vector boson fusion topology in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-019/index.html), [PRL 118 (2017) 021802](https://doi.org/10.1103/PhysRevLett.118.021802) (2017-01-12), [arXiv:1605.09305](https://arxiv.org/abs/1605.09305) (2016-05-30).
* 532 $−$ “Search for top squark pair production in compressed-mass-spectrum scenarios in proton-proton collisions at $\sqrt{s}=$ 8 TeV using the $α\_{T}$ variable"
[CMS-SUS-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-006/index.html), [PLB 767 (2017) 403](https://doi.org/10.1016/j.physletb.2017.02.007) (2017-04-10), [arXiv:1605.08993](https://arxiv.org/abs/1605.08993) (2016-05-29).
* 531 $−$ “Measurement of the W boson helicity fractions in the decays of top quark pairs to lepton+jets final states produced in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-008/index.html), [PLB 762 (2016) 512](https://doi.org/10.1016/j.physletb.2016.10.007) (2016-11-10), [arXiv:1605.09047](https://arxiv.org/abs/1605.09047) (2016-05-29).
* 530 $−$ “Coherent $J/ψ$ photoproduction in ultra-peripheral PbPb collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV with the CMS experiment"
[CMS-HIN-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-009/index.html), [PLB 772 (2017) 489](https://doi.org/10.1016/j.physletb.2017.07.001) (2017-09-10), [arXiv:1605.06966](https://arxiv.org/abs/1605.06966) (2016-05-23).
* 529 $−$ “Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC"
[CMS-HIN-15-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-006/index.html), [PLB 768 (2017) 103](https://doi.org/10.1016/j.physletb.2017.01.075) (2017-05-10), [arXiv:1605.06699](https://arxiv.org/abs/1605.06699) (2016-05-22).
* 528 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}=$ 13 TeV in the single-lepton final state using the sum of masses of large-radius jets"
[CMS-SUS-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-007/index.html), [JHEP 08 (2016) 122](https://doi.org/10.1007/JHEP08%282016%29122) (2016-08-22), [arXiv:1605.04608](https://arxiv.org/abs/1605.04608) (2016-05-15).
* 527 $−$ “Measurement of the double-differential inclusive jet cross section in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-15-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-15-007/index.html), [EPJC 76 (2016) 451](https://doi.org/10.1140/epjc/s10052-016-4286-3) (2016-08-11), [arXiv:1605.04436](https://arxiv.org/abs/1605.04436) (2016-05-14).
* 526 $−$ “Search for new physics in same-sign dilepton events in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-15-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-008/index.html), [EPJC 76 (2016) 439](https://doi.org/10.1140/epjc/s10052-016-4261-z) (2016-08-05), [arXiv:1605.03171](https://arxiv.org/abs/1605.03171) (2016-05-10).
* 525 $−$ “Search for Higgs boson off-shell production in proton-proton collisions at 7 and 8 TeV and derivation of constraints on its total decay width"
[CMS-HIG-14-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-032/index.html), [JHEP 09 (2016) 051](https://doi.org/10.1007/JHEP09%282016%29051) (2016-09-09), [arXiv:1605.02329](https://arxiv.org/abs/1605.02329) (2016-05-08).
* 524 $−$ “Search for narrow resonances in dijet final states at $\sqrt{s}=$ 8 TeV with the novel CMS technique of data scouting"
[CMS-EXO-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-005/index.html), [PRL 117 (2016) 031802](https://doi.org/10.1103/PhysRevLett.117.031802) (2016-07-14), [arXiv:1604.08907](https://arxiv.org/abs/1604.08907) (2016-04-30).
* 523 $−$ “Measurement of the integrated and differential $t‾$ production cross sections for high-$p\_{T}$ top quarks in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-14-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-012/index.html), [PRD 94 (2016) 072002](https://doi.org/10.1103/PhysRevD.94.072002) (2016-10-12), [arXiv:1605.00116](https://arxiv.org/abs/1605.00116) (2016-04-30).
* 522 $−$ “Pseudorapidity dependence of long-range two-particle correlations in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-008/index.html), [PRC 96 (2017) 014915](https://doi.org/10.1103/PhysRevC.96.014915) (2017-07-31), [arXiv:1604.05347](https://arxiv.org/abs/1604.05347) (2016-04-18).
* 521 $−$ “Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $eμ$ pair in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-002/index.html), [EPJC 76 (2016) 317](https://doi.org/10.1140/epjc/s10052-016-4149-y) (2016-06-10), [arXiv:1604.05239](https://arxiv.org/abs/1604.05239) (2016-04-16).
* 520 $−$ “Evidence for exclusive $γγ\rightarrow W^{+}W^{−}$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-FSQ-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-008/index.html), [JHEP 08 (2016) 119](https://doi.org/10.1007/JHEP08%282016%29119) (2016-08-22), [arXiv:1604.04464](https://arxiv.org/abs/1604.04464) (2016-04-15).
* 519 $−$ “Search for two Higgs bosons in final states containing two photons and two bottom quarks"
[CMS-HIG-13-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-032/index.html), [PRD 94 (2016) 052012](https://doi.org/10.1103/PhysRevD.94.052012) (2016-09-29), [arXiv:1603.06896](https://arxiv.org/abs/1603.06896) (2016-03-22).
* 518 $−$ “Measurement of the top quark mass using charged particles in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-12-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-030/index.html), [PRD 93 (2016) 092006](https://doi.org/10.1103/PhysRevD.93.092006) (2016-05-18), [arXiv:1603.06536](https://arxiv.org/abs/1603.06536) (2016-03-21).
* 517 $−$ “Measurements of $t‾$ charge asymmetry using dilepton final states in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-15-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-009/index.html), [PLB 760 (2016) 365](https://doi.org/10.1016/j.physletb.2016.07.006) (2016-09-10), [arXiv:1603.06221](https://arxiv.org/abs/1603.06221) (2016-03-20).
* 516 $−$ “Search for new physics with the $M\_{T2}$ variable in all-jets final states produced in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SUS-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-003/index.html), [JHEP 10 (2016) 006](https://doi.org/10.1007/JHEP10%282016%29006) (2016-10-03), [arXiv:1603.04053](https://arxiv.org/abs/1603.04053) (2016-03-13).
* 515 $−$ “Search for neutral resonances decaying into a Z boson and a pair of b jets or $τ$ leptons"
[CMS-HIG-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-15-001/index.html), [PLB 759 (2016) 369](https://doi.org/10.1016/j.physletb.2016.05.087) (2016-08-10), [arXiv:1603.02991](https://arxiv.org/abs/1603.02991) (2016-03-09).
* 514 $−$ “$Υ\left(nS\right)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s}=$ 7 TeV"
[CMS-HIN-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-003/index.html), [PLB 761 (2016) 31](https://doi.org/10.1016/j.physletb.2016.07.065) (2016-10-10), [arXiv:1603.02913](https://arxiv.org/abs/1603.02913) (2016-03-09).
* 513 $−$ “Search for $s$ channel single top quark production in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-009/index.html), [JHEP 09 (2016) 027](https://doi.org/10.1007/JHEP09%282016%29027) (2016-09-06), [arXiv:1603.02555](https://arxiv.org/abs/1603.02555) (2016-03-08).
* 512 $−$ “Measurement of the $t‾$ production cross section in the $eμ$ channel in proton-proton collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-004/index.html), [JHEP 08 (2016) 029](https://doi.org/10.1007/JHEP08%282016%29029) (2016-08-03), [arXiv:1603.02303](https://arxiv.org/abs/1603.02303) (2016-03-07).
* 511 $−$ “Search for heavy Majorana neutrinos in $e^{\pm }e^{\pm }$+ jets and $e^{\pm }μ^{\pm }$+ jets events in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-014/index.html), [JHEP 04 (2016) 169](https://doi.org/10.1007/JHEP04%282016%29169) (2016-04-27), [arXiv:1603.02248](https://arxiv.org/abs/1603.02248) (2016-03-07).
* 510 $−$ “Measurement of the differential cross section and charge asymmetry for inclusive pp $\rightarrow W^{\pm }+X$ production at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-022/index.html), [EPJC 76 (2016) 469](https://doi.org/10.1140/epjc/s10052-016-4293-4) (2016-08-22), [arXiv:1603.01803](https://arxiv.org/abs/1603.01803) (2016-03-05).
* 509 $−$ “Search for direct pair production of supersymmetric top quarks decaying to all-hadronic final states in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-13-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-023/index.html), [EPJC 76 (2016) 460](https://doi.org/10.1140/epjc/s10052-016-4292-5) (2016-08-16), [arXiv:1603.00765](https://arxiv.org/abs/1603.00765) (2016-03-02).
* 508 $−$ “Measurements of the $t‾$ production cross section in lepton+jets final states in pp collisions at 8 TeV and ratio of 8 to 7 TeV cross sections"
[CMS-TOP-12-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-006/index.html), [EPJC 77 (2017) 15](https://doi.org/10.1140/epjc/s10052-016-4504-z) (2017-01-07), [arXiv:1602.09024](https://arxiv.org/abs/1602.09024) (2016-02-29).
* 507 $−$ “Search for heavy resonances decaying to two Higgs bosons in final states containing four b quarks"
[CMS-EXO-12-053](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-053/index.html), [EPJC 76 (2016) 371](https://doi.org/10.1140/epjc/s10052-016-4206-6) (2016-07-04), [arXiv:1602.08762](https://arxiv.org/abs/1602.08762) (2016-02-28).
* 506 $−$ “Search for supersymmetry in electroweak production with photons and large missing transverse energy in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-016/index.html), [PLB 759 (2016) 479](https://doi.org/10.1016/j.physletb.2016.05.088) (2016-08-10), [arXiv:1602.08772](https://arxiv.org/abs/1602.08772) (2016-02-28).
* 505 $−$ “Measurement of the $Zγ\rightarrow ν‾γ$ production cross section in pp collisions at $\sqrt{s}=$ 8 TeV and limits on anomalous $ZZγ$ and $Zγγ$ trilinear gauge boson couplings"
[CMS-SMP-14-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-019/index.html), [PLB 760 (2016) 448](https://doi.org/10.1016/j.physletb.2016.06.080) (2016-09-10), [arXiv:1602.07152](https://arxiv.org/abs/1602.07152) (2016-02-23).
* 504 $−$ “Search for supersymmetry in the multijet and missing transverse momentum final state in pp collisions at 13 TeV"
[CMS-SUS-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-15-002/index.html), [PLB 758 (2016) 152](https://doi.org/10.1016/j.physletb.2016.05.002) (2016-07-10), [arXiv:1602.06581](https://arxiv.org/abs/1602.06581) (2016-02-21).
* 503 $−$ “Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-015/index.html), [EPJC 76 (2016) 536](https://doi.org/10.1140/epjc/s10052-016-4346-8) (2016-09-30), [arXiv:1602.04384](https://arxiv.org/abs/1602.04384) (2016-02-13).
* 502 $−$ “Search for R-parity violating decays of a top squark in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-013/index.html), [PLB 760 (2016) 178](https://doi.org/10.1016/j.physletb.2016.06.039) (2016-09-10), [arXiv:1602.04334](https://arxiv.org/abs/1602.04334) (2016-02-13).
* 501 $−$ “Combined search for anomalous pseudoscalar HVV couplings in VH production and H $\rightarrow $ VV decay"
[CMS-HIG-14-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-035/index.html), [PLB 759 (2016) 672](https://doi.org/10.1016/j.physletb.2016.06.004) (2016-08-10), [arXiv:1602.04305](https://arxiv.org/abs/1602.04305) (2016-02-13).
* 500 $−$ “Search for direct pair production of scalar top quarks in the single- and dilepton channels in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-015/index.html), [JHEP 07 (2016) 027](https://doi.org/10.1007/JHEP07%282016%29027) (2016-07-05), [arXiv:1602.03169](https://arxiv.org/abs/1602.03169) (2016-02-10).
* 499 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}=$ 8 TeV in final states with boosted W bosons and b jets using razor variables"
[CMS-SUS-14-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-007/index.html), [PRD 93 (2016) 092009](https://doi.org/10.1103/PhysRevD.93.092009) (2016-05-26), [arXiv:1602.02917](https://arxiv.org/abs/1602.02917) (2016-02-09).
* 498 $−$ “Search for massive WH resonances decaying into the $ℓνb‾$ final state at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-010/index.html), [EPJC 76 (2016) 237](https://doi.org/10.1140/epjc/s10052-016-4067-z) (2016-04-28), [arXiv:1601.06431](https://arxiv.org/abs/1601.06431) (2016-01-24).
* 497 $−$ “Azimuthal decorrelation of jets widely separated in rapidity in pp collisions at $\sqrt{s}=$ 7 TeV"
[CMS-FSQ-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-002/index.html), [JHEP 08 (2016) 139](https://doi.org/10.1007/JHEP08%282016%29139) (2016-08-24), [arXiv:1601.06713](https://arxiv.org/abs/1601.06713) (2016-01-25).
* 496 $−$ “Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-004/index.html), [EPJC 76 (2016) 325](https://doi.org/10.1140/epjc/s10052-016-4156-z) (2016-06-14), [arXiv:1601.04768](https://arxiv.org/abs/1601.04768) (2016-01-18).
* 495 $−$ “Measurement of inclusive jet production and nuclear modifications in pPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-001/index.html), [EPJC 76 (2016) 372](https://doi.org/10.1140/epjc/s10052-016-4205-7) (2016-07-04), [arXiv:1601.02001](https://arxiv.org/abs/1601.02001) (2016-01-08).
* 494 $−$ “Measurements of $t‾$ spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-14-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-023/index.html), [PRD 93 (2016) 052007](https://doi.org/10.1103/PhysRevD.93.052007) (2016-03-09), [arXiv:1601.01107](https://arxiv.org/abs/1601.01107) (2016-01-06).
* 493 $−$ “Correlations between jets and charged particles in PbPb and pp collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-016/index.html), [JHEP 02 (2016) 156](https://doi.org/10.1007/JHEP02%282016%29156) (2016-02-23), [arXiv:1601.00079](https://arxiv.org/abs/1601.00079) (2016-01-01).
* 492 $−$ “Measurement of differential and integrated fiducial cross sections for Higgs boson production in the four-lepton decay channel in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-HIG-14-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-028/index.html), [JHEP 04 (2016) 005](https://doi.org/10.1007/JHEP04%282016%29005) (2016-04-01), [arXiv:1512.08377](https://arxiv.org/abs/1512.08377) (2015-12-28).
* 491 $−$ “Search for supersymmetry in events with soft leptons, low jet multiplicity, and missing transverse energy in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-021/index.html), [PLB 759 (2016) 9](https://doi.org/10.1016/j.physletb.2016.05.033) (2016-08-10), [arXiv:1512.08002](https://arxiv.org/abs/1512.08002) (2015-12-25).
* 490 $−$ “Study of Z boson production in pPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-15-002/index.html), [PLB 759 (2016) 36](https://doi.org/10.1016/j.physletb.2016.05.044) (2016-08-10), [arXiv:1512.06461](https://arxiv.org/abs/1512.06461) (2015-12-20).
* 489 $−$ “Measurement of the inclusive jet cross section in pp collisions at $\sqrt{s}=$ 2.76 TeV"
[CMS-SMP-14-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-017/index.html), [EPJC 76 (2016) 265](https://doi.org/10.1140/epjc/s10052-016-4083-z) (2016-05-12), [arXiv:1512.06212](https://arxiv.org/abs/1512.06212) (2015-12-19).
* 488 $−$ “Search for narrow resonances decaying to dijets in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-15-001/index.html), [PRL 116 (2016) 071801](https://doi.org/10.1103/PhysRevLett.116.071801) (2016-02-18), [arXiv:1512.01224](https://arxiv.org/abs/1512.01224) (2015-12-03).
* 487 $−$ “Event generator tunes obtained from underlying event and multiparton scattering measurements"
[CMS-GEN-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/GEN-14-001/index.html), [EPJC 76 (2016) 155](https://doi.org/10.1140/epjc/s10052-016-3988-x) (2016-03-17), [arXiv:1512.00815](https://arxiv.org/abs/1512.00815) (2015-12-02).
* 486 $−$ “Search for dark matter and unparticles produced in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-12-054](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-054/index.html), [PRD 93 (2016) 052011](https://doi.org/10.1103/PhysRevD.93.052011) (2016-03-22), [arXiv:1511.09375](https://arxiv.org/abs/1511.09375) (2015-11-30).
* 485 $−$ “Measurement of spin correlations in $t‾$ production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-13-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-015/index.html), [PLB 758 (2016) 321](https://doi.org/10.1016/j.physletb.2016.05.005) (2016-07-10), [arXiv:1511.06170](https://arxiv.org/abs/1511.06170) (2015-11-19).
* 484 $−$ “Search for anomalous single top quark production in association with a photon in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-003/index.html), [JHEP 04 (2016) 035](https://doi.org/10.1007/JHEP04%282016%29035) (2016-04-06), [arXiv:1511.03951](https://arxiv.org/abs/1511.03951) (2015-11-12).
* 483 $−$ “Search for a low-mass pseudoscalar Higgs boson produced in association with a $b‾$ pair in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-033/index.html), [PLB 758 (2016) 296](https://doi.org/10.1016/j.physletb.2016.05.003) (2016-07-10), [arXiv:1511.03610](https://arxiv.org/abs/1511.03610) (2015-11-11).
* 482 $−$ “Measurement of top quark polarisation in $t$-channel single top quark production"
[CMS-TOP-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-001/index.html), [JHEP 04 (2016) 073](https://doi.org/10.1007/JHEP04%282016%29073) (2016-04-13), [arXiv:1511.02138](https://arxiv.org/abs/1511.02138) (2015-11-06).
* 481 $−$ “Search for excited leptons in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-015/index.html), [JHEP 03 (2016) 125](https://doi.org/10.1007/JHEP03%282016%29125) (2016-03-17), [arXiv:1511.01407](https://arxiv.org/abs/1511.01407) (2015-11-04).
* 480 $−$ “Reconstruction and identification of $τ$ lepton decays to hadrons and $ν\_{τ}$ at CMS"
[CMS-TAU-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-14-001/index.html), [JINST 11 (2016) P01019](https://doi.org/10.1088/1748-0221/11/01/P01019) (2016-01-29), [arXiv:1510.07488](https://arxiv.org/abs/1510.07488) (2015-10-26).
* 479 $−$ “Search for a very light NMSSM Higgs boson produced in decays of the 125 GeV scalar boson and decaying into $τ$ leptons in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-019/index.html), [JHEP 01 (2016) 079](https://doi.org/10.1007/JHEP01%282016%29079) (2016-01-13), [arXiv:1510.06534](https://arxiv.org/abs/1510.06534) (2015-10-22).
* 478 $−$ “Measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s}=$ 13TeV"
[CMS-TOP-15-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-15-003/index.html), [PRL 116 (2016) 052002](https://doi.org/10.1103/PhysRevLett.116.052002) (2016-02-05), [arXiv:1510.05302](https://arxiv.org/abs/1510.05302) (2015-10-18).
* 477 $−$ “Search for a light charged Higgs boson decaying to $c‾$ in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-13-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-035/index.html), [JHEP 12 (2015) 1](https://doi.org/10.1007/JHEP12%282015%29178) (2015-12-29), [arXiv:1510.04252](https://arxiv.org/abs/1510.04252) (2015-10-14).
* 476 $−$ “Transverse momentum spectra of b jets in pPb collisions at $\sqrt{s\_{NN}}=$ 5.02 TeV"
[CMS-HIN-14-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-007/index.html), [PLB 754 (2016) 59](https://doi.org/10.1016/j.physletb.2016.01.010) (2016-03-10), [arXiv:1510.03373](https://arxiv.org/abs/1510.03373) (2015-10-12).
* 475 $−$ “Measurement of $t‾$ production with additional jet activity, including b quark jets, in the dilepton decay channel using pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-12-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-041/index.html), [EPJC 76 (2016) 379](https://doi.org/10.1140/epjc/s10052-016-4105-x) (2016-07-07), [arXiv:1510.03072](https://arxiv.org/abs/1510.03072) (2015-10-11).
* 474 $−$ “Measurement of long-range near-side two-particle angular correlations in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-15-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-002/index.html), [PRL 116 (2016) 172302](https://doi.org/10.1103/PhysRevLett.116.172302) (2016-04-27), [arXiv:1510.03068](https://arxiv.org/abs/1510.03068) (2015-10-11).
* 473 $−$ “Searches for a heavy scalar boson $H$ decaying to a pair of 125 GeV Higgs bosons $hh$ or for a heavy pseudoscalar boson $A$ decaying to $Zh$, in the final states with $h\rightarrow ττ$"
[CMS-HIG-14-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-034/index.html), [PLB 755 (2016) 217](https://doi.org/10.1016/j.physletb.2016.01.056) (2016-04-10), [arXiv:1510.01181](https://arxiv.org/abs/1510.01181) (2015-10-05).
* 472 $−$ “Observation of top quark pairs produced in association with a vector boson in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-14-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-021/index.html), [JHEP 01 (2016) 096](https://doi.org/10.1007/JHEP01%282016%29096) (2016-01-18), [arXiv:1510.01131](https://arxiv.org/abs/1510.01131) (2015-10-05).
* 471 $−$ “Measurement of transverse momentum relative to dijet systems in PbPb and pp collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-010/index.html), [JHEP 01 (2016) 006](https://doi.org/10.1007/JHEP01%282016%29006) (2016-01-04), [arXiv:1509.09029](https://arxiv.org/abs/1509.09029) (2015-09-30).
* 470 $−$ “Search for the associated production of a Higgs boson with a single top quark in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-027/index.html), [JHEP 06 (2016) 177](https://doi.org/10.1007/JHEP06%282016%29177) (2016-06-30), [arXiv:1509.08159](https://arxiv.org/abs/1509.08159) (2015-09-28).
* 469 $−$ “Search for the production of an excited bottom quark decaying to tW in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-B2G-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-14-005/index.html), [JHEP 01 (2016) 166](https://doi.org/10.1007/JHEP01%282016%29166) (2016-01-27), [arXiv:1509.08141](https://arxiv.org/abs/1509.08141) (2015-09-27).
* 468 $−$ “Measurement of the $t‾$ production cross section in the all-jets final state in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-14-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-018/index.html), [EPJC 76 (2016) 128](https://doi.org/10.1140/epjc/s10052-016-3956-5) (2016-03-08), [arXiv:1509.06076](https://arxiv.org/abs/1509.06076) (2015-09-21).
* 467 $−$ “Search for W’ $\rightarrow $ tb in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-B2G-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-009/index.html), [JHEP 02 (2016) 122](https://doi.org/10.1007/JHEP02%282016%29122) (2016-02-18), [arXiv:1509.06051](https://arxiv.org/abs/1509.06051) (2015-09-20).
* 466 $−$ “Search for vector-like charge 2/3 T quarks in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-B2G-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-005/index.html), [PRD 93 (2016) 012003](https://doi.org/10.1103/PhysRevD.93.012003) (2016-01-19), [arXiv:1509.04177](https://arxiv.org/abs/1509.04177) (2015-09-15).
* 465 $−$ “Search for dark matter particles in proton-proton collisions at $\sqrt{s}=$ 8 TeV using the razor variables"
[CMS-EXO-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-004/index.html), [JHEP 12 (2016) 088](https://doi.org/10.1007/JHEP12%282016%29088) (2016-12-19), [arXiv:1603.08914](https://arxiv.org/abs/1603.08914) (2016-03-29).
* 464 $−$ “Measurement of the top quark mass using proton-proton data at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-TOP-14-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-14-022/index.html), [PRD 93 (2016) 072004](https://doi.org/10.1103/PhysRevD.93.072004) (2016-04-07), [arXiv:1509.04044](https://arxiv.org/abs/1509.04044) (2015-09-15).
* 463 $−$ “Measurement of the inelastic cross section in proton-lead collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-FSQ-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-13-006/index.html), [PLB 759 (2016) 641](https://doi.org/10.1016/j.physletb.2016.06.027) (2016-08-10), [arXiv:1509.03893](https://arxiv.org/abs/1509.03893) (2015-09-13).
* 462 $−$ “Search for single production of scalar leptoquarks in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-12-043](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-043/index.html), [PRD 93 (2016) 032005](https://doi.org/10.1103/PhysRevD.93.032005) (2016-02-24), [arXiv:1509.03750](https://arxiv.org/abs/1509.03750) (2015-09-12).
* 461 $−$ “Search for pair production of first and second generation leptoquarks in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-12-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-041/index.html), [PRD 93 (2016) 032004](https://doi.org/10.1103/PhysRevD.93.032004) (2016-02-24), [arXiv:1509.03744](https://arxiv.org/abs/1509.03744) (2015-09-12).
* 460 $−$ “Search for a charged Higgs boson in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-023/index.html), [JHEP 11 (2015) 018](https://doi.org/10.1007/JHEP11%282015%29018) (2015-11-04), [arXiv:1508.07774](https://arxiv.org/abs/1508.07774) (2015-08-31).
* 459 $−$ “Search for supersymmetry in the vector-boson fusion topology in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-005/index.html), [JHEP 11 (2015) 189](https://doi.org/10.1007/JHEP11%282015%29189) (2015-11-27), [arXiv:1508.07628](https://arxiv.org/abs/1508.07628) (2015-08-30).
* 458 $−$ “Measurement of differential cross sections for Higgs boson production in the diphoton decay channel in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-016/index.html), [EPJC 76 (2016) 13](https://doi.org/10.1140/epjc/s10052-015-3853-3) (2016-01-11), [arXiv:1508.07819](https://arxiv.org/abs/1508.07819) (2015-08-29).
* 457 $−$ “Study of B meson production in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV using exclusive hadronic decays"
[CMS-HIN-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-004/index.html), [PRL 116 (2016) 032301](https://doi.org/10.1103/PhysRevLett.116.032301) (2016-01-22), [arXiv:1508.06678](https://arxiv.org/abs/1508.06678) (2015-08-27).
* 456 $−$ “Search for W’ decaying to tau lepton and neutrino in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-011/index.html), [PLB 755 (2016) 196](https://doi.org/10.1016/j.physletb.2016.02.002) (2016-04-10), [arXiv:1508.04308](https://arxiv.org/abs/1508.04308) (2015-08-18).
* 455 $−$ “Measurement of the charge asymmetry in top quark pair production in pp collisions at $\sqrt{s}=$ 8 TeV using a template method"
[CMS-TOP-13-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-013/index.html), [PRD 93 (2016) 034014](https://doi.org/10.1103/PhysRevD.93.034014) (2016-02-18), [arXiv:1508.03862](https://arxiv.org/abs/1508.03862) (2015-08-16).
* 454 $−$ “Search for neutral MSSM Higgs bosons decaying to $μ^{+}μ^{−}$ in pp collisions at $\sqrt{s}=$ 7 and 8 TeV"
[CMS-HIG-13-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-024/index.html), [PLB 752 (2016) 221](https://doi.org/10.1016/j.physletb.2015.11.042) (2016-01-10), [arXiv:1508.01437](https://arxiv.org/abs/1508.01437) (2015-08-06).
* 453 $−$ “Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-013/index.html), [PLB 757 (2016) 6](https://doi.org/10.1016/j.physletb.2016.03.039) (2016-06-10), [arXiv:1508.01218](https://arxiv.org/abs/1508.01218) (2015-08-05).
* 452 $−$ “Angular analysis of the decay $B^{0}\rightarrow K^{\*0}μ^{+}μ^{−}$ from pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-010/index.html), [PLB 753 (2016) 424](https://doi.org/10.1016/j.physletb.2015.12.020) (2016-02-10), [arXiv:1507.08126](https://arxiv.org/abs/1507.08126) (2015-07-29).
* 451 $−$ “Measurement of the CP-violating weak phase $ϕ\_{s}$ and the decay width difference $ΔΓ\_{s}$ using the $B\_{s}^{0}\rightarrow J/ψϕ\left(1020\right)$ decay channel in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-BPH-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-012/index.html), [PLB 757 (2016) 97](https://doi.org/10.1016/j.physletb.2016.03.046) (2016-06-10), [arXiv:1507.07527](https://arxiv.org/abs/1507.07527) (2015-07-27).
* 450 $−$ “Measurement of the underlying event activity using charged-particle jets in proton-proton collisions at $\sqrt{s}=$ 2.76 TeV"
[CMS-FSQ-12-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-025/index.html), [JHEP 09 (2015) 137](https://doi.org/10.1007/JHEP09%282015%29137) (2015-09-21), [arXiv:1507.07229](https://arxiv.org/abs/1507.07229) (2015-07-26).
* 449 $−$ “Search for pair-produced vectorlike B quarks in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-B2G-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-006/index.html), [PRD 93 (2016) 112009](https://doi.org/10.1103/PhysRevD.93.112009) (2016-06-15), [arXiv:1507.07129](https://arxiv.org/abs/1507.07129) (2015-07-25).
* 448 $−$ “Limits on the Higgs boson lifetime and width from its decay to four charged leptons"
[CMS-HIG-14-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-036/index.html), [PRD 92 (2015) 072010](https://doi.org/10.1103/PhysRevD.92.072010) (2015-10-22), [arXiv:1507.06656](https://arxiv.org/abs/1507.06656) (2015-07-23).
* 447 $−$ “Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-FSQ-15-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-15-001/index.html), [PLB 751 (2015) 143](https://doi.org/10.1016/j.physletb.2015.10.004) (2015-12-17), [arXiv:1507.05915](https://arxiv.org/abs/1507.05915) (2015-07-22).
* 446 $−$ “Measurement of the WW cross section in pp collisions at $\sqrt{s}=$ 8 TeV and limits on anomalous gauge couplings"
[CMS-SMP-14-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-016/index.html), [EPJC 76 (2016) 401](https://doi.org/10.1140/epjc/s10052-016-4219-1) (2016-07-15), [arXiv:1507.03268](https://arxiv.org/abs/1507.03268) (2015-07-13).
* 445 $−$ “Inclusive and differential measurements of the $t‾$ charge asymmetry in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-TOP-12-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-033/index.html), [PLB 757 (2016) 154](https://doi.org/10.1016/j.physletb.2016.03.060) (2016-06-10), [arXiv:1507.03119](https://arxiv.org/abs/1507.03119) (2015-07-11).
* 444 $−$ “Search for a Higgs boson decaying into $γ^{\*}γ\rightarrow ℓℓγ$ with low dilepton mass in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-003/index.html), [PLB 753 (2016) 341](https://doi.org/10.1016/j.physletb.2015.12.039) (2016-02-10), [arXiv:1507.03031](https://arxiv.org/abs/1507.03031) (2015-07-10).
* 443 $−$ “Search for supersymmetry with photons in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SUS-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-004/index.html), [PRD 92 (2015) 072006](https://doi.org/10.1103/PhysRevD.92.072006) (2015-10-19), [arXiv:1507.02898](https://arxiv.org/abs/1507.02898) (2015-07-10).
* 442 $−$ “Search for exotic decays of a Higgs boson into undetectable particles and photons"
[CMS-HIG-14-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-025/index.html), [PLB 753 (2016) 363](https://doi.org/10.1016/j.physletb.2015.12.017) (2016-02-10), [arXiv:1507.00359](https://arxiv.org/abs/1507.00359) (2015-07-02).
* 441 $−$ “Production of leading charged particles and leading charged-particle jets at small transverse momenta in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-FSQ-12-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-032/index.html), [PRD 92 (2015) 112001](https://doi.org/10.1103/PhysRevD.92.112001) (2015-12-01), [arXiv:1507.00233](https://arxiv.org/abs/1507.00233) (2015-06-30).
* 440 $−$ “Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks"
[CMS-HIG-14-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-017/index.html), [JHEP 11 (2015) 071](https://doi.org/10.1007/JHEP11%282015%29071) (2015-11-11), [arXiv:1506.08329](https://arxiv.org/abs/1506.08329) (2015-06-28).
* 439 $−$ “Search for resonant $t‾$ production in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-B2G-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-008/index.html), [PRD 93 (2016) 012001](https://doi.org/10.1103/PhysRevD.93.012001) (2016-01-08), [arXiv:1506.03062](https://arxiv.org/abs/1506.03062) (2015-06-08).
* 438 $−$ “Search for diphoton resonances in the mass range from 150 to 850 GeV in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-HIG-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-006/index.html), [PLB 750 (2015) 494](https://doi.org/10.1016/j.physletb.2015.09.062) (2015-09-26), [arXiv:1506.02301](https://arxiv.org/abs/1506.02301) (2015-06-07).
* 437 $−$ “Search for a massive resonance decaying into a Higgs boson and a W or Z boson in hadronic final states in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-009/index.html), [JHEP 02 (2016) 145](https://doi.org/10.1007/JHEP02%282016%29145) (2016-02-22), [arXiv:1506.01443](https://arxiv.org/abs/1506.01443) (2015-06-04).
* 436 $−$ “Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b‾$"
[CMS-HIG-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-004/index.html), [PRD 92 (2015) 032008](https://doi.org/10.1103/PhysRevD.92.032008) (2015-08-27), [arXiv:1506.01010](https://arxiv.org/abs/1506.01010) (2015-06-02).
* 435 $−$ “A search for pair production of new light bosons decaying into muons"
[CMS-HIG-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-010/index.html), [PLB 752 (2016) 146](https://doi.org/10.1016/j.physletb.2015.10.067) (2016-01-10), [arXiv:1506.00424](https://arxiv.org/abs/1506.00424) (2015-05-31).
* 434 $−$ “Search for neutral color-octet weak-triplet scalar particles in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-007/index.html), [JHEP 09 (2015) 201](https://doi.org/10.1007/JHEP09%282015%29201) (2015-09-29), [arXiv:1505.08118](https://arxiv.org/abs/1505.08118) (2015-05-29).
* 433 $−$ “Comparison of the Z$/γ^{\*}$+jets to $γ$+jets cross sections in pp collisions at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-005/index.html), [JHEP 10 (2015) 128](https://doi.org/10.1007/JHEP10%282015%29128) (2015-10-20), [arXiv:1505.06520](https://arxiv.org/abs/1505.06520) (2015-05-25).
* 432 $−$ “Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-028/index.html), [EPJC 75 (2015) 542](https://doi.org/10.1140/epjc/s10052-015-3709-x) (2015-11-20), [arXiv:1505.04480](https://arxiv.org/abs/1505.04480) (2015-05-17).
* 431 $−$ “Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $ℓ^{+}ℓ^{−}b‾$ final states"
[CMS-HIG-14-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-011/index.html), [PLB 748 (2015) 221](https://doi.org/10.1016/j.physletb.2015.07.010) (2015-07-09), [arXiv:1504.04710](https://arxiv.org/abs/1504.04710) (2015-04-19).
* 430 $−$ “Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s}$ = 8 TeV and decaying to $μ^{+}μ^{−}$ as a function of transverse momentum and rapidity"
[CMS-SMP-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-010/index.html), [PLB 750 (2015) 154](https://doi.org/10.1016/j.physletb.2015.08.061) (2015-09-01), [arXiv:1504.03512](https://arxiv.org/abs/1504.03512) (2015-04-15).
* 429 $−$ “Measurement of the Z boson differential cross section in transverse momentum and rapidity in proton-proton collisions at 8 TeV"
[CMS-SMP-13-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-013/index.html), [PLB 749 (2015) 187](https://doi.org/10.1016/j.physletb.2015.07.065) (2015-07-29), [arXiv:1504.03511](https://arxiv.org/abs/1504.03511) (2015-04-14).
* 428 $−$ “Search for the production of dark matter in association with top-quark pairs in the single-lepton final state in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-B2G-14-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-14-004/index.html), [JHEP 06 (2015) 121](https://doi.org/10.1007/JHEP06%282015%29121) (2015-06-17), [arXiv:1504.03198](https://arxiv.org/abs/1504.03198) (2015-04-14).
* 427 $−$ “Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons"
[CMS-HIG-13-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-031/index.html), [JHEP 10 (2015) 144](https://doi.org/10.1007/JHEP10%282015%29144) (2015-10-22), [arXiv:1504.00936](https://arxiv.org/abs/1504.00936) (2015-04-04).
* 426 $−$ “Search for third-generation scalar leptoquarks in the t$τ$ channel in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-EXO-14-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-14-008/index.html), [JHEP 07 (2015) 042](https://doi.org/10.1007/JHEP07%282015%29042) (2015-07-09), [arXiv:1503.09049](https://arxiv.org/abs/1503.09049) (2015-03-31).
* 425 $−$ “Measurement of diffractive dissociation cross sections in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FSQ-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-005/index.html), [PRD 92 (2015) 012003](https://doi.org/10.1103/PhysRevD.92.012003) (2015-07-06), [arXiv:1503.08689](https://arxiv.org/abs/1503.08689) (2015-03-30).
* 424 $−$ “Searches for third generation squark production in fully hadronic final states in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-001/index.html), [JHEP 06 (2015) 116](https://doi.org/10.1007/JHEP06%282015%29116) (2015-06-17), [arXiv:1503.08037](https://arxiv.org/abs/1503.08037) (2015-03-27).
* 423 $−$ “Combined measurement of the Higgs boson mass in pp collisions at $\sqrt{s}$ = 7 and 8 TeV with the ATLAS and CMS experiments"
[CMS-HIG-14-042](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-042/index.html), [PRL 114 (2015) 191803](https://doi.org/10.1103/PhysRevLett.114.191803) (2015-05-14), [arXiv:1503.07589](https://arxiv.org/abs/1503.07589) (2015-03-26).
* 422 $−$ “Study of W boson production in pPb collisions at $\sqrt{s\_{NN}}$ = 5.02 TeV"
[CMS-HIN-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-007/index.html), [PLB 750 (2015) 565](https://doi.org/10.1016/j.physletb.2015.09.057) (2015-09-25), [arXiv:1503.05825](https://arxiv.org/abs/1503.05825) (2015-03-20).
* 421 $−$ “Measurements of the ZZ production cross sections in the $2ℓ2ν$ channel in proton-proton collisions at $\sqrt{s}=$ 7 and 8 TeV and combined constraints on triple gauge couplings"
[CMS-SMP-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-016/index.html), [EPJC 75 (2015) 511](https://doi.org/10.1140/epjc/s10052-015-3706-0) (2015-10-29), [arXiv:1503.05467](https://arxiv.org/abs/1503.05467) (2015-03-18).
* 420 $−$ “Search for resonant pair production of Higgs bosons decaying to two bottom quark-antiquark pairs in proton-proton collisions at 8 TeV"
[CMS-HIG-14-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-013/index.html), [PLB 749 (2015) 560](https://doi.org/10.1016/j.physletb.2015.08.047) (2015-08-22), [arXiv:1503.04114](https://arxiv.org/abs/1503.04114) (2015-03-14).
* 419 $−$ “Search for vector-like T quarks decaying to top quarks and Higgs bosons in the all-hadronic channel using jet substructure"
[CMS-B2G-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-14-002/index.html), [JHEP 06 (2015) 080](https://doi.org/10.1007/JHEP06%282015%29080) (2015-06-12), [arXiv:1503.01952](https://arxiv.org/abs/1503.01952) (2015-03-06).
* 418 $−$ “Evidence for transverse momentum and pseudorapidity dependent event plane fluctuations in PbPb and pPb collisions"
[CMS-HIN-14-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-012/index.html), [PRC 92 (2015) 034911](https://doi.org/10.1103/PhysRevC.92.034911) (2015-09-22), [arXiv:1503.01692](https://arxiv.org/abs/1503.01692) (2015-03-05).
* 417 $−$ “A study of final-state radiation in decays of Z bosons produced in pp collisions at 7 TeV"
[CMS-EWK-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-016/index.html), [PRD 91 (2015) 092012](https://doi.org/10.1103/PhysRevD.91.092012) (2015-05-29), [arXiv:1502.07940](https://arxiv.org/abs/1502.07940) (2015-02-27).
* 416 $−$ “Search for lepton-flavour-violating decays of the Higgs boson"
[CMS-HIG-14-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-005/index.html), [PLB 749 (2015) 337](https://doi.org/10.1016/j.physletb.2015.07.053) (2015-10-07), [arXiv:1502.07400](https://arxiv.org/abs/1502.07400) (2015-02-26).
* 415 $−$ “Search for physics beyond the standard model in events with two leptons, jets, and missing transverse momentum in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-14-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-014/index.html), [JHEP 04 (2015) 124](https://doi.org/10.1007/JHEP04%282015%29124) (2015-04-22), [arXiv:1502.06031](https://arxiv.org/abs/1502.06031) (2015-02-21).
* 414 $−$ “Measurement of the Z$γ$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings"
[CMS-SMP-13-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-014/index.html), [JHEP 04 (2015) 164](https://doi.org/10.1007/JHEP04%282015%29164) (2015-04-29), [arXiv:1502.05664](https://arxiv.org/abs/1502.05664) (2015-02-19).
* 413 $−$ “Nuclear effects on the transverse momentum spectra of charged particles in pPb collisions at $\sqrt{s\_{NN}}$ = 5.02 TeV"
[CMS-HIN-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-017/index.html), [EPJC 75 (2015) 237](https://doi.org/10.1140/epjc/s10052-015-3435-4) (2015-05-29), [arXiv:1502.05387](https://arxiv.org/abs/1502.05387) (2015-02-19).
* 412 $−$ “Evidence for collective multi-particle correlations in pPb collisions"
[CMS-HIN-14-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-006/index.html), [PRL 115 (2015) 012301](https://doi.org/10.1103/PhysRevLett.115.012301) (2015-06-29), [arXiv:1502.05382](https://arxiv.org/abs/1502.05382) (2015-02-18).
* 411 $−$ “Search for narrow high-mass resonances in proton-proton collisions at $\sqrt{s}$ = 8 TeV decaying to Z and Higgs bosons"
[CMS-EXO-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-007/index.html), [PLB 748 (2015) 255](https://doi.org/10.1016/j.physletb.2015.07.011) (2015-07-09), [arXiv:1502.04994](https://arxiv.org/abs/1502.04994) (2015-02-17).
* 410 $−$ “Distributions of topological observables in inclusive three- and four-jet events in pp collisions at $\sqrt{s}=$ 7 TeV"
[CMS-QCD-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-006/index.html), [EPJC 75 (2015) 302](https://doi.org/10.1140/epjc/s10052-015-3491-9) (2015-07-01), [arXiv:1502.04785](https://arxiv.org/abs/1502.04785) (2015-02-17).
* 409 $−$ “Searches for supersymmetry using the $M\_{T2}$ variable in hadronic events produced in pp collisions at 8 TeV"
[CMS-SUS-13-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-019/index.html), [JHEP 05 (2015) 078](https://doi.org/10.1007/JHEP05%282015%29078) (2015-05-15), [arXiv:1502.04358](https://arxiv.org/abs/1502.04358) (2015-02-15).
* 408 $−$ “Measurement of $J/ψ$ and $ψ\left(2S\right)$ prompt double-differential cross sections in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-001/index.html), [PRL 114 (2015) 191802](https://doi.org/10.1103/PhysRevLett.114.191802) (2015-05-14), [arXiv:1502.04155](https://arxiv.org/abs/1502.04155) (2015-02-14).
* 407 $−$ “Performance of photon reconstruction and identification with the CMS detector in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EGM-14-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-14-001/index.html), [JINST 10 (2015) P08010](https://doi.org/10.1088/1748-0221/10/08/P08010) (2015-08-18), [arXiv:1502.02702](https://arxiv.org/abs/1502.02702) (2015-02-10).
* 406 $−$ “Performance of electron reconstruction and selection with the CMS detector in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EGM-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-13-001/index.html), [JINST 10 (2015) P06005](https://doi.org/10.1088/1748-0221/10/06/P06005) (2015-06-10), [arXiv:1502.02701](https://arxiv.org/abs/1502.02701) (2015-02-10).
* 405 $−$ “Constraints on the pMSSM, AMSB model and on other models from the search for long-lived charged particles in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-006/index.html), [EPJC 75 (2015) 325](https://doi.org/10.1140/epjc/s10052-015-3533-3) (2015-07-17), [arXiv:1502.02522](https://arxiv.org/abs/1502.02522) (2015-02-09).
* 404 $−$ “Search for a standard model Higgs boson produced in association with a top-quark pair and decaying to bottom quarks using a matrix element method"
[CMS-HIG-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-010/index.html), [EPJC 75 (2015) 251](https://doi.org/10.1140/epjc/s10052-015-3454-1) (2015-06-09), [arXiv:1502.02485](https://arxiv.org/abs/1502.02485) (2015-02-09).
* 403 $−$ “Search for supersymmetry using razor variables in events with b-tagged jets in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-004/index.html), [PRD 91 (2015) 052018](https://doi.org/10.1103/PhysRevD.91.052018) (2015-03-23), [arXiv:1502.00300](https://arxiv.org/abs/1502.00300) (2015-02-01).
* 402 $−$ “Measurements of the $Υ\left(1S\right)$, $Υ\left(2S\right)$, and $Υ\left(3S\right)$ differential cross sections in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-12-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-12-006/index.html), [PLB 749 (2015) 14](https://doi.org/10.1016/j.physletb.2015.07.037) (2015-07-18), [arXiv:1501.07750](https://arxiv.org/abs/1501.07750) (2015-01-30).
* 401 $−$ “Measurement of the ratio $B\left(B\_{s}^{0}\rightarrow J/ψ f\_{0}\left(980\right)\right)/B\left(B\_{s}^{0}\rightarrow J/ψ ϕ\left(1020\right)\right)$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-14-002/index.html), [PLB 756 (2016) 84](https://doi.org/10.1016/j.physletb.2016.02.047) (2016-05-10), [arXiv:1501.06089](https://arxiv.org/abs/1501.06089) (2015-01-25).
* 400 $−$ “Search for decays of stopped long-lived particles produced in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-036/index.html), [EPJC 75 (2015) 151](https://doi.org/10.1140/epjc/s10052-015-3367-z) (2015-04-11), [arXiv:1501.05603](https://arxiv.org/abs/1501.05603) (2015-01-22).
* 399 $−$ “Search for heavy Majorana neutrinos in $μ^{\pm }μ^{\pm }$+jets events in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-057](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-057/index.html), [PLB 748 (2015) 144](https://doi.org/10.1016/j.physletb.2015.06.070) (2015-06-30), [arXiv:1501.05566](https://arxiv.org/abs/1501.05566) (2015-01-22).
* 398 $−$ “Search for resonances and quantum black holes using dijet mass spectra in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-059](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-059/index.html), [PRD 91 (2015) 052009](https://doi.org/10.1103/PhysRevD.91.052009) (2015-03-12), [arXiv:1501.04198](https://arxiv.org/abs/1501.04198) (2015-01-18).
* 397 $−$ “Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV"
[CMS-HIG-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-009/index.html), [EPJC 75 (2015) 212](https://doi.org/10.1140/epjc/s10052-015-3351-7) (2015-05-14), [arXiv:1412.8662](https://arxiv.org/abs/1412.8662) (2014-12-30).
* 396 $−$ “Search for pair-produced resonances decaying to jet pairs in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-052](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-052/index.html), [PLB 747 (2015) 98](https://doi.org/10.1016/j.physletb.2015.04.045) (2015-07-30), [arXiv:1412.7706](https://arxiv.org/abs/1412.7706) (2014-12-24).
* 395 $−$ “Search for physics beyond the standard model in dilepton mass spectra in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-061](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-061/index.html), [JHEP 04 (2015) 025](https://doi.org/10.1007/JHEP04%282015%29025) (2015-04-07), [arXiv:1412.6302](https://arxiv.org/abs/1412.6302) (2014-12-19).
* 394 $−$ “Searches for supersymmetry based on events with b jets and four W bosons in pp collisions at 8 TeV"
[CMS-SUS-14-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-010/index.html), [PLB 745 (2015) 5](https://doi.org/10.1016/j.physletb.2015.04.002) (2015-04-13), [arXiv:1412.4109](https://arxiv.org/abs/1412.4109) (2014-12-13).
* 393 $−$ “Measurement of the inclusive 3-jet production differential cross section in proton-proton collisions at 7 TeV and determination of the strong coupling constant in the TeV range"
[CMS-SMP-12-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-027/index.html), [EPJC 75 (2015) 186](https://doi.org/10.1140/epjc/s10052-015-3376-y) (2015-05-01), [arXiv:1412.1633](https://arxiv.org/abs/1412.1633) (2014-12-05).
* 392 $−$ “Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SMP-14-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-14-003/index.html), [EPJC 75 (2015) 147](https://doi.org/10.1140/epjc/s10052-015-3364-2) (2015-04-09), [arXiv:1412.1115](https://arxiv.org/abs/1412.1115) (2014-12-03).
* 391 $−$ “Search for stealth supersymmetry in events with jets, either photons or leptons, and low missing transverse momentum in pp collisions at 8 TeV"
[CMS-SUS-14-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-009/index.html), [PLB 743 (2015) 503](https://doi.org/10.1016/j.physletb.2015.03.017) (2015-04-09), [arXiv:1411.7255](https://arxiv.org/abs/1411.7255) (2014-11-26).
* 390 $−$ “Search for long-lived particles that decay into final states containing two electrons or two muons in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-037/index.html), [PRD 91 (2015) 052012](https://doi.org/10.1103/PhysRevD.91.052012) (2015-03-18), [arXiv:1411.6977](https://arxiv.org/abs/1411.6977) (2014-11-25).
* 389 $−$ “Search for long-lived neutral particles decaying to quark-antiquark pairs in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-038/index.html), [PRD 91 (2015) 012007](https://doi.org/10.1103/PhysRevD.91.012007) (2015-01-20), [arXiv:1411.6530](https://arxiv.org/abs/1411.6530) (2014-11-25).
* 388 $−$ “Search for disappearing tracks in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-034/index.html), [JHEP 01 (2015) 096](https://doi.org/10.1007/JHEP01%282015%29096) (2015-01-19), [arXiv:1411.6006](https://arxiv.org/abs/1411.6006) (2014-11-21).
* 387 $−$ “Measurement of the cross section ratio $σ\_{t‾b‾}/σ\_{t‾jj}$ in pp collisions at $\sqrt{s}$ = 8TeV"
[CMS-TOP-13-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-010/index.html), [PLB 746 (2015) 132](https://doi.org/10.1016/j.physletb.2015.04.060) (2015-04-30), [arXiv:1411.5621](https://arxiv.org/abs/1411.5621) (2014-11-20).
* 386 $−$ “Observation of the rare $B\_{s}^{0}\rightarrow μ^{+}μ^{−}$ decay from the combined analysis of CMS and LHCb data"
[CMS-BPH-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-007/index.html), [Nature 522 (2015) 68](https://doi.org/10.1038/nature14474) (2015-05-13), [arXiv:1411.4413](https://arxiv.org/abs/1411.4413) (2014-11-17).
* 385 $−$ “Constraints on the spin-parity and anomalous HVV couplings of the Higgs boson in proton collisions at 7 and 8 TeV"
[CMS-HIG-14-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-018/index.html), [PRD 92 (2015) 012004](https://doi.org/10.1103/PhysRevD.92.012004) (2015-07-13), [arXiv:1411.3441](https://arxiv.org/abs/1411.3441) (2014-11-13).
* 384 $−$ “Search for quark contact interactions and extra spatial dimensions using dijet angular distributions in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-050/index.html), [PLB 746 (2015) 79](https://doi.org/10.1016/j.physletb.2015.04.042) (2015-04-24), [arXiv:1411.2646](https://arxiv.org/abs/1411.2646) (2014-11-11).
* 383 $−$ “Performance of the CMS missing transverse momentum reconstruction in pp data at $\sqrt{s}$ = 8 TeV"
[CMS-JME-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-13-003/index.html), [JINST 10 (2015) P02006](https://doi.org/10.1088/1748-0221/10/02/P02006) (2015-02-12), [arXiv:1411.0511](https://arxiv.org/abs/1411.0511) (2014-11-03).
* 382 $−$ “Search for new phenomena in monophoton final states in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-047](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-047/index.html), [PLB 755 (2016) 102](https://doi.org/10.1016/j.physletb.2016.01.057) (2016-04-10), [arXiv:1410.8812](https://arxiv.org/abs/1410.8812) (2014-10-31).
* 381 $−$ “Constraints on parton distribution functions and extraction of the strong coupling constant from the inclusive jet cross section in pp collisions at $\sqrt{s}=$ 7 TeV"
[CMS-SMP-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-028/index.html), [EPJC 75 (2015) 288](https://doi.org/10.1140/epjc/s10052-015-3499-1) (2015-06-26), [arXiv:1410.6765](https://arxiv.org/abs/1410.6765) (2014-10-25).
* 380 $−$ “Search for a standard model-like Higgs boson in the $μ^{+}μ^{−}$ and $e^{+}e^{−}$ decay channels at the LHC"
[CMS-HIG-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-007/index.html), [PLB 744 (2015) 184](https://doi.org/10.1016/j.physletb.2015.03.048) (2015-05-11), [arXiv:1410.6679](https://arxiv.org/abs/1410.6679) (2014-10-24).
* 379 $−$ “Study of vector boson scattering and search for new physics in events with two same-sign leptons and two jets"
[CMS-SMP-13-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-015/index.html), [PRL 114 (2015) 051801](https://doi.org/10.1103/PhysRevLett.114.051801) (2015-02-02), [arXiv:1410.6315](https://arxiv.org/abs/1410.6315) (2014-10-23).
* 378 $−$ “Measurement of the ratio $B\left(B\_{c}^{+}\rightarrow J/ψ π^{+}π^{+}π^{−}\right)/B\left(B\_{c}^{+}\rightarrow J/ψ π^{+}\right)$ and the production cross sections times branching fractions of $B\_{c}^{+}\rightarrow J/ψ π^{+}$ and $B^{+}\rightarrow J/ψ K^{+}$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-12-011/index.html), [JHEP 01 (2015) 063](https://doi.org/10.1007/JHEP01%282015%29063) (2015-01-13), [arXiv:1410.5729](https://arxiv.org/abs/1410.5729) (2014-10-21).
* 377 $−$ “Study of Z production in PbPb and pp collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV in the dimuon and dielectron decay channels"
[CMS-HIN-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-004/index.html), [JHEP 03 (2015) 022](https://doi.org/10.1007/JHEP03%282015%29022) (2015-03-04), [arXiv:1410.4825](https://arxiv.org/abs/1410.4825) (2014-10-17).
* 376 $−$ “Identification techniques for highly boosted W bosons that decay into hadrons"
[CMS-JME-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-13-006/index.html), [JHEP 12 (2014) 017](https://doi.org/10.1007/JHEP12%282014%29017) (2014-12-02), [arXiv:1410.4227](https://arxiv.org/abs/1410.4227) (2014-10-16).
* 375 $−$ “Measurement of electroweak production of two jets in association with a Z boson in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
[CMS-FSQ-12-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-035/index.html), [EPJC 75 (2015) 66](https://doi.org/10.1140/epjc/s10052-014-3232-5) (2015-02-10), [arXiv:1410.3153](https://arxiv.org/abs/1410.3153) (2014-10-13).
* 374 $−$ “Searches for heavy Higgs bosons in two-Higgs-doublet models and for $t\rightarrow ch$ decay using multilepton and diphoton final states in pp collisions at 8 TeV"
[CMS-HIG-13-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-025/index.html), [PRD 90 (2014) 112013](https://doi.org/10.1103/PhysRevD.90.112013) (2014-12-23), [arXiv:1410.2751](https://arxiv.org/abs/1410.2751) (2014-10-10).
* 373 $−$ “Measurement of prompt $ψ\left(2S\right)$ to $J/ψ$ yield ratios in PbPb and pp collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-007/index.html), [PRL 113 (2014) 262301](https://doi.org/10.1103/PhysRevLett.113.262301) (2014-12-31), [arXiv:1410.1804](https://arxiv.org/abs/1410.1804) (2014-10-08).
* 372 $−$ “Measurement of the W boson helicity in events with a single reconstructed top quark in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-020/index.html), [JHEP 01 (2015) 053](https://doi.org/10.1007/JHEP01%282015%29053) (2015-01-12), [arXiv:1410.1154](https://arxiv.org/abs/1410.1154) (2014-10-05).
* 371 $−$ “Search for monotop signatures in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-B2G-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-022/index.html), [PRL 114 (2015) 101801](https://doi.org/10.1103/PhysRevLett.114.101801) (2015-03-10), [arXiv:1410.1149](https://arxiv.org/abs/1410.1149) (2014-10-05).
* 370 $−$ “Search for standard model production of four top quarks in the lepton + jets channel in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-012/index.html), [JHEP 11 (2014) 154](https://doi.org/10.1007/JHEP11%282014%29154) (2014-11-27), [arXiv:1409.7339](https://arxiv.org/abs/1409.7339) (2014-09-26).
* 369 $−$ “Measurement of the production cross section ratio $σ\left(χ\_{b2}\left(1P\right)\right)/σ\left(χ\_{b1}\left(1P\right)\right)$ in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-BPH-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-005/index.html), [PLB 743 (2015) 383](https://doi.org/10.1016/j.physletb.2015.02.048) (2015-04-09), [arXiv:1409.5761](https://arxiv.org/abs/1409.5761) (2014-09-19).
* 368 $−$ “Search for Displaced Supersymmetry in events with an electron and a muon with large impact parameters"
[CMS-B2G-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-024/index.html), [PRL 114 (2015) 061801](https://doi.org/10.1103/PhysRevLett.114.061801) (2015-02-13), [arXiv:1409.4789](https://arxiv.org/abs/1409.4789) (2014-09-17).
* 367 $−$ “Long-range two-particle correlations of strange hadrons with charged particles in pPb and PbPb collisions at LHC energies"
[CMS-HIN-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-14-002/index.html), [PLB 742 (2015) 200](https://doi.org/10.1016/j.physletb.2015.01.034) (2015-03-06), [arXiv:1409.3392](https://arxiv.org/abs/1409.3392) (2014-09-11).
* 366 $−$ “Searches for electroweak neutralino and chargino production in channels with Higgs, Z, and W bosons in pp collisions at 8 TeV"
[CMS-SUS-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-14-002/index.html), [PRD 90 (2014) 092007](https://doi.org/10.1103/PhysRevD.90.092007) (2014-11-21), [arXiv:1409.3168](https://arxiv.org/abs/1409.3168) (2014-09-10).
* 365 $−$ “Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-048](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-048/index.html), [EPJC 75 (2015) 235](https://doi.org/10.1140/epjc/s10052-015-3451-4) (2015-05-29), [arXiv:1408.3583](https://arxiv.org/abs/1408.3583) (2014-08-15).
* 364 $−$ “Search for neutral MSSM Higgs bosons decaying to a pair of tau leptons in pp collisions"
[CMS-HIG-13-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-021/index.html), [JHEP 10 (2014) 160](https://doi.org/10.1007/JHEP10%282014%29160) (2014-10-28), [arXiv:1408.3316](https://arxiv.org/abs/1408.3316) (2014-08-14).
* 363 $−$ “Measurements of jet multiplicity and differential production cross sections of Z+jets events in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-017/index.html), [PRD 91 (2015) 052008](https://doi.org/10.1103/PhysRevD.91.052008) (2015-03-11), [arXiv:1408.3104](https://arxiv.org/abs/1408.3104) (2014-08-13).
* 362 $−$ “Search for physics beyond the standard model in final states with a lepton and missing transverse energy in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-060](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-060/index.html), [PRD 91 (2015) 092005](https://doi.org/10.1103/PhyRevD.91.092005) (2015-05-22), [arXiv:1408.2745](https://arxiv.org/abs/1408.2745) (2014-08-13).
* 361 $−$ “Search for the associated production of the Higgs boson with a top-quark pair"
[CMS-HIG-13-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-029/index.html), [JHEP 09 (2014) 087](https://doi.org/10.1007/JHEP09%282014%29087) (2014-09-16), [arXiv:1408.1682](https://arxiv.org/abs/1408.1682) (2014-08-08).
* 360 $−$ “Search for pair production of third-generation scalar leptoquarks and top squarks in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-032/index.html), [PLB 739 (2014) 229](https://doi.org/10.1016/j.physletb.2014.10.063) (2014-12-12), [arXiv:1408.0806](https://arxiv.org/abs/1408.0806) (2014-08-04).
* 359 $−$ “Measurement of the $t‾$ production cross section in pp collisions at $\sqrt{s}$ = 8 TeV in dilepton final states containing one $τ$ lepton"
[CMS-TOP-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-026/index.html), [PLB 739 (2014) 23](https://doi.org/10.1016/j.physletb.2014.10.032) (2014-12-12), [arXiv:1407.6643](https://arxiv.org/abs/1407.6643) (2014-07-24).
* 358 $−$ “Search for heavy neutrinos and W bosons with right-handed couplings in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-13-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-008/index.html), [EPJC 74 (2014) 3149](https://doi.org/10.1140/epjc/s10052-014-3149-z) (2014-11-26), [arXiv:1407.3683](https://arxiv.org/abs/1407.3683) (2014-07-14).
* 357 $−$ “Search for new resonances decaying via WZ to leptons in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-025/index.html), [PLB 740 (2015) 83](https://doi.org/10.1016/j.physletb.2014.11.026) (2014-11-14), [arXiv:1407.3476](https://arxiv.org/abs/1407.3476) (2014-07-13).
* 356 $−$ “Study of hadronic event-shape variables in multijet final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-022/index.html), [JHEP 10 (2014) 087](https://doi.org/10.1007/JHEP10%282014%29087) (2014-10-14), [arXiv:1407.2856](https://arxiv.org/abs/1407.2856) (2014-07-11).
* 355 $−$ “Observation of the diphoton decay of the Higgs boson and measurement of its properties"
[CMS-HIG-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-001/index.html), [EPJC 74 (2014) 3076](https://doi.org/10.1140/epjc/s10052-014-3076-z) (2014-10-15), [arXiv:1407.0558](https://arxiv.org/abs/1407.0558) (2014-07-02).
* 354 $−$ “Measurement of top quark-antiquark pair production in association with a W or Z boson in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-036/index.html), [EPJC 74 (2014) 3060](https://doi.org/10.1140/epjc/s10052-014-3060-7) (2014-09-17), [arXiv:1406.7830](https://arxiv.org/abs/1406.7830) (2014-06-30).
* 353 $−$ “Differential cross section measurements for the production of a W boson in association with jets in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-023/index.html), [PLB 741 (2015) 12](https://doi.org/10.1016/j.physletb.2014.12.003) (2015-02-04), [arXiv:1406.7533](https://arxiv.org/abs/1406.7533) (2014-06-30).
* 352 $−$ “Search for excited quarks in the $γ$+jet final state in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-003/index.html), [PLB 738 (2014) 274](https://doi.org/10.1016/j.physletb.2014.09.048) (2014-11-10), [arXiv:1406.5171](https://arxiv.org/abs/1406.5171) (2014-06-20).
* 351 $−$ “Measurement of jet fragmentation in PbPb and pp collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-12-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-013/index.html), [PRC 90 (2014) 024908](https://doi.org/10.1103/PhysRevC.90.024908) (2014-08-18), [arXiv:1406.0932](https://arxiv.org/abs/1406.0932) (2014-06-04).
* 350 $−$ “Measurement of prompt J/$ψ$ pair production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-021/index.html), [JHEP 09 (2014) 094](https://doi.org/10.1007/JHEP09%282014%29094) (2014-09-17), [arXiv:1406.0484](https://arxiv.org/abs/1406.0484) (2014-06-03).
* 349 $−$ “Measurement of the ratio of inclusive jet cross sections using the anti-$k\_{T}$ algorithm with radius parameters R = 0.5 and 0.7 in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-002/index.html), [PRD 90 (2014) 072006](https://doi.org/10.1103/PhysRevD.90.072006) (2014-10-16), [arXiv:1406.0324](https://arxiv.org/abs/1406.0324) (2014-06-02).
* 348 $−$ “Measurement of the $pp\rightarrow ZZ$ production cross section and constraints on anomalous triple gauge couplings in four-lepton final states at $\sqrt{s}=$ 8 TeV"
[CMS-SMP-13-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-005/index.html), [PLB 740 (2015) 250](https://doi.org/10.1016/j.physletb.2014.11.059) (2014-11-30), [arXiv:1406.0113](https://arxiv.org/abs/1406.0113) (2014-06-01).
* 347 $−$ “Search for jet extinction in the inclusive jet-$p\_{T}$ spectrum from proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-051](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-051/index.html), [PRD 90 (2014) 032005](https://doi.org/10.1103/PhysRevD.90.032005) (2014-08-18), [arXiv:1405.7653](https://arxiv.org/abs/1405.7653) (2014-05-29).
* 346 $−$ “Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV"
[CMS-SUS-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-006/index.html), [EPJC 74 (2014) 3036](https://doi.org/10.1140/epjc/s10052-014-3036-7) (2014-09-26), [arXiv:1405.7570](https://arxiv.org/abs/1405.7570) (2014-05-29).
* 345 $−$ “Measurement of differential cross sections for the production of a pair of isolated photons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-001/index.html), [EPJC 74 (2014) 3129](https://doi.org/10.1140/epjc/s10052-014-3129-3) (2014-11-12), [arXiv:1405.7225](https://arxiv.org/abs/1405.7225) (2014-05-28).
* 344 $−$ “Description and performance of track and primary-vertex reconstruction with the CMS tracker"
[CMS-TRK-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-11-001/index.html), [JINST 9 (2014) P10009](https://doi.org/10.1088/1748-0221/9/10/P10009) (2014-10-16), [arXiv:1405.6569](https://arxiv.org/abs/1405.6569) (2014-05-26).
* 343 $−$ “Search for supersymmetry with razor variables in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-005/index.html), [PRD 90 (2014) 112001](https://doi.org/10.1103/PhysRevD.90.112001) (2014-12-01), [arXiv:1405.3961](https://arxiv.org/abs/1405.3961) (2014-05-15).
* 342 $−$ “Search for top-squark pairs decaying into Higgs or Z bosons in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-13-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-024/index.html), [PLB 736 (2014) 371](https://doi.org/10.1016/j.physletb.2014.07.053) (2014-09-07), [arXiv:1405.3886](https://arxiv.org/abs/1405.3886) (2014-05-15).
* 341 $−$ “Search for massive resonances decaying into pairs of boosted bosons in semi-leptonic final states at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-13-009/index.html), [JHEP 08 (2014) 174](https://doi.org/10.1007/JHEP08%282014%29174) (2014-08-29), [arXiv:1405.3447](https://arxiv.org/abs/1405.3447) (2014-05-14).
* 340 $−$ “Constraints on the Higgs boson width from off-shell production and decay to Z-boson pairs"
[CMS-HIG-14-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-14-002/index.html), [PLB 736 (2014) 64](https://doi.org/10.1016/j.physletb.2014.06.077) (2014-09-07), [arXiv:1405.3455](https://arxiv.org/abs/1405.3455) (2014-05-14).
* 339 $−$ “Search for massive resonances in dijet systems containing jets tagged as W or Z boson decays in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-024/index.html), [JHEP 08 (2014) 173](https://doi.org/10.1007/JHEP08%282014%29173) (2014-08-29), [arXiv:1405.1994](https://arxiv.org/abs/1405.1994) (2014-05-08).
* 338 $−$ “Measurement of pseudorapidity distributions of charged particles in proton-proton collisions at $\sqrt{s}$ = 8 TeV by the CMS and TOTEM experiments"
[CMS-FSQ-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-026/index.html), [EPJC 74 (2014) 3053](https://doi.org/10.1140/epjc/s10052-014-3053-6) (2014-10-29), [arXiv:1405.0722](https://arxiv.org/abs/1405.0722) (2014-05-04).
* 337 $−$ “Search for anomalous production of events with three or more leptons in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-002/index.html), [PRD 90 (2014) 032006](https://doi.org/10.1103/PhysRevD.90.032006) (2014-08-20), [arXiv:1404.5801](https://arxiv.org/abs/1404.5801) (2014-04-23).
* 336 $−$ “A search for WW$γ$ and WZ$γ$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SMP-13-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-009/index.html), [PRD 90 (2014) 032008](https://doi.org/10.1103/PhysRevD.90.032008) (2014-08-25), [arXiv:1404.4619](https://arxiv.org/abs/1404.4619) (2014-04-17).
* 335 $−$ “Measurement of jet multiplicity distributions in $t‾$ production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-12-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-018/index.html), [EPJC 74 (2014) 3014 [Corr EPJC 75 (2015) 216]](https://doi.org/10.1140/epjc/s10052-015-3437-2) (2014-08-20), [arXiv:1404.3171](https://arxiv.org/abs/1404.3171) (2014-04-12).
* 334 $−$ “Measurement of the ratio $B\left(t\rightarrow Wb\right)/B\left(t\rightarrow Wq\right)$ in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-035/index.html), [PLB 736 (2014) 33](https://doi.org/10.1016/j.physletb.2014.06.076) (2014-09-07), [arXiv:1404.2292](https://arxiv.org/abs/1404.2292) (2014-04-08).
* 333 $−$ “Search for invisible decays of Higgs bosons in the vector boson fusion and associated ZH production modes"
[CMS-HIG-13-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-030/index.html), [EPJC 74 (2014) 2980](https://doi.org/10.1140/epjc/s10052-014-2980-6) (2014-08-13), [arXiv:1404.1344](https://arxiv.org/abs/1404.1344) (2014-04-05).
* 332 $−$ “Measurement of the $t$-channel single-top-quark production cross section and of the $\left|V\_{tb}\right|$ CKM matrix element in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-038/index.html), [JHEP 06 (2014) 090](https://doi.org/10.1007/JHEP06%282014%29090) (2014-06-16), [arXiv:1403.7366](https://arxiv.org/abs/1403.7366) (2014-03-24).
* 331 $−$ “Measurement of WZ and ZZ production in pp collisions at $\sqrt{s}$ = 8 TeV in final states with b-tagged jets"
[CMS-SMP-13-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-011/index.html), [EPJC 74 (2014) 2973](https://doi.org/10.1140/epjc/s10052-014-2973-5) (2014-08-07), [arXiv:1403.3047](https://arxiv.org/abs/1403.3047) (2014-03-12).
* 330 $−$ “Alignment of the CMS tracker with LHC and cosmic ray data"
[CMS-TRK-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-11-002/index.html), [JINST 9 (2014) P06009](https://doi.org/10.1088/1748-0221/9/06/P06009) (2014-06-06), [arXiv:1403.2286](https://arxiv.org/abs/1403.2286) (2014-03-10).
* 329 $−$ “Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-012/index.html), [JHEP 06 (2014) 055](https://doi.org/10.1007/JHEP06%282014%29055) (2014-06-10), [arXiv:1402.4770](https://arxiv.org/abs/1402.4770) (2014-02-19).
* 328 $−$ “Measurements of the $t‾$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-010/index.html), [JHEP 04 (2014) 191](https://doi.org/10.1007/JHEP04%282014%29191) (2014-04-30), [arXiv:1402.3803](https://arxiv.org/abs/1402.3803) (2014-02-16).
* 327 $−$ “Search for W’ $\rightarrow $ tb decays in the lepton + jets final state in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-B2G-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-010/index.html), [JHEP 05 (2014) 108](https://doi.org/10.1007/JHEP05%282014%29108) (2014-05-23), [arXiv:1402.2176](https://arxiv.org/abs/1402.2176) (2014-02-10).
* 326 $−$ “Measurement of the production cross sections for a Z boson and one or more b jets in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-004/index.html), [JHEP 06 (2014) 120](https://doi.org/10.1007/JHEP06%282014%29120) (2014-06-12), [arXiv:1402.1521](https://arxiv.org/abs/1402.1521) (2014-02-07).
* 325 $−$ “Measurement of inclusive W and Z boson production cross sections in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SMP-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-011/index.html), [PRL 112 (2014) 191802](https://doi.org/10.1103/PhysRevLett.112.191802) (2014-05-14), [arXiv:1402.0923](https://arxiv.org/abs/1402.0923) (2014-02-05).
* 324 $−$ “Evidence for the direct decay of the 125 GeV Higgs boson to fermions"
[CMS-HIG-13-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-033/index.html), [NP 10 (2014) 557-560](https://doi.org/10.1038/nphys3005) (2014-06-22), [arXiv:1401.6527](https://arxiv.org/abs/1401.6527) (2014-01-24).
* 323 $−$ “Evidence for the 125 GeV Higgs boson decaying to a pair of $τ$ leptons"
[CMS-HIG-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-004/index.html), [JHEP 05 (2014) 104](https://doi.org/10.1007/JHEP05%282014%29104) (2014-05-22), [arXiv:1401.5041](https://arxiv.org/abs/1401.5041) (2014-01-20).
* 322 $−$ “Studies of dijet pseudorapidity distributions and transverse momentum balance in pPb collisions at $\sqrt{s\_{NN}}$ = 5.02 TeV"
[CMS-HIN-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-001/index.html), [EPJC 74 (2014) 2951](https://doi.org/10.1140/epjc/s10052-014-2951-y) (2014-07-23), [arXiv:1401.4433](https://arxiv.org/abs/1401.4433) (2014-01-17).
* 321 $−$ “Observation of the associated production of a single top quark and a W boson in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-040](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-040/index.html), [PRL 112 (2014) 231802](https://doi.org/10.1103/PhysRevLett.112.231802) (2014-06-09), [arXiv:1401.2942](https://arxiv.org/abs/1401.2942) (2014-01-13).
* 320 $−$ “Measurement of the $t‾$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-007/index.html), [JHEP 02 (2014) 024](https://doi.org/10.1007/JHEP02%282014%29024) (2014-02-05), [arXiv:1312.7582](https://arxiv.org/abs/1312.7582) (2013-12-30).
* 319 $−$ “Measurement of the production cross section for a W boson and two b jets in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-026/index.html), [PLB 735 (2014) 204](https://doi.org/10.1016/j.physletb.2014.06.041) (2014-07-30), [arXiv:1312.6608](https://arxiv.org/abs/1312.6608) (2013-12-23).
* 318 $−$ “Measurement of four-jet production in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FSQ-12-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-013/index.html), [PRD 89 (2014) 092010](https://doi.org/10.1103/PhysRevD.89.092010) (2014-05-28), [arXiv:1312.6440](https://arxiv.org/abs/1312.6440) (2013-12-23).
* 317 $−$ “Measurement of the muon charge asymmetry in inclusive pp $\rightarrow $ W + X production at $\sqrt{s}$ = 7 TeV and an improved determination of light parton distribution functions"
[CMS-SMP-12-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-021/index.html), [PRD 90 (2014) 032004](https://doi.org/10.1103/PhysRevD.90.032004) (2014-08-13), [arXiv:1312.6283](https://arxiv.org/abs/1312.6283) (2013-12-22).
* 316 $−$ “Event activity dependence of Y(nS) production in $\sqrt{s\_{NN}}$=5.02 TeV pPb and $\sqrt{s}$=2.76 TeV pp collisions"
[CMS-HIN-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-003/index.html), [JHEP 04 (2014) 103](https://doi.org/10.1007/JHEP04%282014%29103) (2014-04-15), [arXiv:1312.6300](https://arxiv.org/abs/1312.6300) (2013-12-22).
* 315 $−$ “Study of double parton scattering using W + 2-jet events in proton-proton collisions at $\sqrt{s}=$ 7 TeV"
[CMS-FSQ-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-028/index.html), [JHEP 03 (2014) 032](https://doi.org/10.1007/JHEP03%282014%29032) (2014-03-05), [arXiv:1312.5729](https://arxiv.org/abs/1312.5729) (2013-12-19).
* 314 $−$ “Measurement of the properties of a Higgs boson in the four-lepton final state"
[CMS-HIG-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-002/index.html), [PRD 89 (2014) 092007](https://doi.org/10.1103/PhysRevD.89.092007) (2014-05-14), [arXiv:1312.5353](https://arxiv.org/abs/1312.5353) (2013-12-19).
* 313 $−$ “Evidence of b-jet quenching in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-12-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-003/index.html), [PRL 113 (2014) 132301](https://doi.org/10.1103/PhysRevLett.113.132301) (2014-09-22), [arXiv:1312.4198](https://arxiv.org/abs/1312.4198) (2013-12-15).
* 312 $−$ “Search for flavor-changing neutral currents in top-quark decays $t\rightarrow Zq$ in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-TOP-12-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-037/index.html), [PRL 112 (2014) 171802](https://doi.org/10.1103/PhysRevLett.112.171802) (2014-05-02), [arXiv:1312.4194](https://arxiv.org/abs/1312.4194) (2013-12-15).
* 311 $−$ “Search for stop and higgsino production using diphoton Higgs boson decays"
[CMS-SUS-13-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-014/index.html), [PRL 112 (2014) 161802](https://doi.org/10.1103/PhysRevLett.112.161802) (2014-04-25), [arXiv:1312.3310](https://arxiv.org/abs/1312.3310) (2013-12-12).
* 310 $−$ “Search for top-quark partners with charge 5/3 in the same-sign dilepton final state"
[CMS-B2G-12-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-012/index.html), [PRL 112 (2014) 171801](https://doi.org/10.1103/PhysRevLett.112.171801) (2014-04-30), [arXiv:1312.2391](https://arxiv.org/abs/1312.2391) (2013-12-09).
* 309 $−$ “Studies of azimuthal dihadron correlations in ultra-central PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-011/index.html), [JHEP 02 (2014) 088](https://doi.org/10.1007/JHEP02%282014%29088) (2014-02-20), [arXiv:1312.1845](https://arxiv.org/abs/1312.1845) (2013-12-06).
* 308 $−$ “Measurement of Higgs boson production and properties in the WW decay channel with leptonic final states"
[CMS-HIG-13-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-023/index.html), [JHEP 01 (2014) 096](https://doi.org/10.1007/JHEP01%282014%29096) (2014-01-17), [arXiv:1312.1129](https://arxiv.org/abs/1312.1129) (2013-12-04).
* 307 $−$ “Inclusive search for a vector-like T quark with charge 2/3 in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-B2G-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-015/index.html), [PLB 729 (2014) 149](https://doi.org/10.1016/j.physletb.2014.01.006) (2014-02-05), [arXiv:1311.7667](https://arxiv.org/abs/1311.7667) (2013-11-30).
* 306 $−$ “Search for new physics in events with same-sign dileptons and jets in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-13-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-013/index.html), [JHEP 01 (2014) 163](https://doi.org/10.1007/JHEP01%282014%29163) (2014-01-29), [arXiv:1311.6736](https://arxiv.org/abs/1311.6736) (2013-11-26).
* 305 $−$ “Measurement of the triple-differential cross section for photon+jets production in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-005/index.html), [JHEP 06 (2014) 009](https://doi.org/10.1007/JHEP06%282014%29009) (2014-06-03), [arXiv:1311.6141](https://arxiv.org/abs/1311.6141) (2013-11-24).
* 304 $−$ “Probing color coherence effects in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-010/index.html), [EPJC 74 (2014) 2901](https://doi.org/10.1140/epjc/s10052-014-2901-8) (2014-06-11), [arXiv:1311.5815](https://arxiv.org/abs/1311.5815) (2013-11-23).
* 303 $−$ “Search for pair production of excited top quarks in the lepton+jets final state"
[CMS-B2G-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-014/index.html), [JHEP 06 (2014) 125](https://doi.org/10.1007/JHEP06%282014%29125) (2014-06-19), [arXiv:1311.5357](https://arxiv.org/abs/1311.5357) (2013-11-21).
* 302 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}$ = 8 TeV in events with a single lepton, large jet multiplicity, and multiple b jets"
[CMS-SUS-13-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-007/index.html), [PLB 733 (2014) 328-353](https://doi.org/10.1016/j.physletb.2014.04.023) (2014-06-02), [arXiv:1311.4937](https://arxiv.org/abs/1311.4937) (2013-11-20).
* 301 $−$ “Measurements of $t‾$ spin correlations and top-quark polarization using dilepton final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-13-003/index.html), [PRL 112 (2014) 182001](https://doi.org/10.1103/PhysRevLett.112.182001) (2014-05-05), [arXiv:1311.3924](https://arxiv.org/abs/1311.3924) (2013-11-16).
* 300 $−$ “Searches for light- and heavy-flavour three-jet resonances in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-049](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-049/index.html), [PLB 730 (2014) 193](https://doi.org/10.1016/j.physletb.2014.01.049) (2014-03-07), [arXiv:1311.1799](https://arxiv.org/abs/1311.1799) (2013-11-07).
* 299 $−$ “Measurement of higher-order harmonic azimuthal anisotropy in PbPb collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-005/index.html), [PRC 89 (2014) 044906](https://doi.org/10.1103/PhysRevC.89.044906) (2014-04-11), [arXiv:1310.8651](https://arxiv.org/abs/1310.8651) (2013-10-31).
* 298 $−$ “Measurement of the differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-13-003/index.html), [JHEP 12 (2013) 030](https://doi.org/10.1007/JHEP12%282013%29030) (2013-12-04), [arXiv:1310.7291](https://arxiv.org/abs/1310.7291) (2013-10-28).
* 297 $−$ “Jet and underlying event properties as a function of charged-particle multiplicity in proton–proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FSQ-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-022/index.html), [EPJC 73 (2013) 2674](https://doi.org/10.1140/epjc/s10052-013-2674-5) (2013-12-11), [arXiv:1310.4554](https://arxiv.org/abs/1310.4554) (2013-10-18).
* 296 $−$ “Search for the standard model Higgs boson produced in association with a W or a Z boson and decaying to bottom quarks"
[CMS-HIG-13-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-012/index.html), [PRD 89 (2014) 012003](https://doi.org/10.1103/PhysRevD.89.012003) (2014-01-21), [arXiv:1310.3687](https://arxiv.org/abs/1310.3687) (2013-10-14).
* 295 $−$ “Rapidity distributions in exclusive Z + jet and photon + jet events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-004/index.html), [PRD 88 (2013) 112009](https://doi.org/10.1103/PhysRevD.88.112009) (2013-12-23), [arXiv:1310.3082](https://arxiv.org/abs/1310.3082) (2013-10-11).
* 294 $−$ “Search for baryon number violation in top quark decays"
[CMS-B2G-12-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-023/index.html), [PLB 731 (2014) 173](https://doi.org/10.1016/j.physletb.2014.02.033) (2014-04-04), [arXiv:1310.1618](https://arxiv.org/abs/1310.1618) (2013-10-06).
* 293 $−$ “Measurement of associated W + charm production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-002/index.html), [JHEP 02 (2014) 013](https://doi.org/10.1007/JHEP02%282014%29013) (2014-02-04), [arXiv:1310.1138](https://arxiv.org/abs/1310.1138) (2013-10-06).
* 292 $−$ “Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-11-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-015/index.html), [JHEP 12 (2013) 039](https://doi.org/10.1007/JHEP12%282013%29039) (2013-12-06), [arXiv:1310.1349](https://arxiv.org/abs/1310.1349) (2013-10-04).
* 291 $−$ “Modification of jet shapes in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-002/index.html), [PLB 730 (2014) 243](https://doi.org/10.1016/j.physletb.2014.01.042) (2014-03-07), [arXiv:1310.0878](https://arxiv.org/abs/1310.0878) (2013-10-02).
* 290 $−$ “Observation of a peaking structure in the $J/ψϕ$ mass spectrum from $B^{\pm }\rightarrow J/ψϕK^{\pm }$ decays"
[CMS-BPH-11-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-026/index.html), [PLB 734 (2014) 261-281](https://doi.org/10.1016/j.physletb.2014.05.055) (2014-06-27), [arXiv:1309.6920](https://arxiv.org/abs/1309.6920) (2013-09-26).
* 289 $−$ “Searches for new physics using the $t‾$ invariant mass distribution in pp collisions at $\sqrt{s}$ =8 TeV"
[CMS-B2G-13-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-13-001/index.html), [PRL 111 (2013) 211804](https://doi.org/10.1103/PhysRevLett.111.211804) (2013-11-22), [arXiv:1309.2030](https://arxiv.org/abs/1309.2030) (2013-09-09).
* 288 $−$ “Measurement of the production cross section for $Zγ\rightarrow ν‾γ$ in pp collisions at $\sqrt{s}$ = 7 TeV and limits on $ZZγ$ and $Zγγ$ triple gauge boson couplings"
[CMS-SMP-12-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-020/index.html), [JHEP 10 (2013) 164](https://doi.org/10.1007/JHEP10%282013%29164) (2013-10-24), [arXiv:1309.1117](https://arxiv.org/abs/1309.1117) (2013-09-04).
* 287 $−$ “Search for a new bottomonium state decaying to $Υ\left(1S\right)π^{+}π^{−}$ in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-BPH-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-016/index.html), [PLB 727 (2013) 57](https://doi.org/10.1016/j.physletb.2013.10.016) (2013-11-25), [arXiv:1309.0250](https://arxiv.org/abs/1309.0250) (2013-09-01).
* 286 $−$ “Measurement of the $Wγ$ and $Zγ$ inclusive cross sections in pp collisions at $\sqrt{s}$ = 7 TeV and limits on anomalous triple gauge boson couplings"
[CMS-EWK-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-009/index.html), [PRD 89 (2014) 092005](https://doi.org/10.1103/PhysRevD.89.092005) (2014-05-13), [arXiv:1308.6832](https://arxiv.org/abs/1308.6832) (2013-09-01).
* 285 $−$ “Measurement of the W-boson helicity in top-quark decays from $t‾$ production in lepton+jets events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-020/index.html), [JHEP 10 (2013) 167](https://doi.org/10.1007/JHEP10%282013%29167) (2013-10-24), [arXiv:1308.3879](https://arxiv.org/abs/1308.3879) (2013-08-19).
* 284 $−$ “Angular analysis and branching fraction measurement of the decay $B^{0}\rightarrow K^{\*0}μ^{+}μ^{−}$"
[CMS-BPH-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-009/index.html), [PLB 727 (2013) 77-100](https://doi.org/10.1016/j.physletb.2013.10.017) (2013-11-25), [arXiv:1308.3409](https://arxiv.org/abs/1308.3409) (2013-08-15).
* 283 $−$ “Search for top-squark pair production in the single-lepton final state in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-13-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-011/index.html), [EPJC 73 (2013) 2677](https://doi.org/10.1140/epjc/s10052-013-2677-2) (2013-12-21), [arXiv:1308.1586](https://arxiv.org/abs/1308.1586) (2013-08-07).
* 282 $−$ “Measurement of the prompt $J/ψ$ and $ψ\left(2S\right)$ polarizations in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-003/index.html), [PLB 727 (2013) 381](https://doi.org/10.1016/j.physletb.2013.10.055) (2013-10-29), [arXiv:1307.6070](https://arxiv.org/abs/1307.6070) (2013-07-23).
* 281 $−$ “Search for a Higgs boson decaying into a Z and a photon in pp collisions at $\sqrt{s}$ = 7 and 8 TeV"
[CMS-HIG-13-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-13-006/index.html), [PLB 726 (2013) 587](https://doi.org/10.1016/j.physletb.2013.09.057) (2013-11-04), [arXiv:1307.5515](https://arxiv.org/abs/1307.5515) (2013-07-21).
* 280 $−$ “Measurement of the $B\_{s}^{0}\rightarrow μ^{+}μ^{−}$ branching fraction and search for $B^{0}\rightarrow μ^{+}μ^{−}$ with the CMS Experiment"
[CMS-BPH-13-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-13-004/index.html), [PRL 111 (2013) 101804](https://doi.org/10.1103/PhysRevLett.111.101804) (2013-09-05), [arXiv:1307.5025](https://arxiv.org/abs/1307.5025) (2013-07-19).
* 279 $−$ “Measurement of the top-quark mass in all-jets $t‾$ events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-017/index.html), [EPJC 74 (2014) 2758](https://doi.org/10.1140/epjc/s10052-014-2758-x) (2014-04-04), [arXiv:1307.4617](https://arxiv.org/abs/1307.4617) (2013-07-17).
* 278 $−$ “Study of the production of charged pions, kaons, and protons in pPb collisions at $\sqrt{s\_{NN}}$ = 5.02 TeV"
[CMS-HIN-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-016/index.html), [EPJC 74 (2014) 2847](https://doi.org/10.1140/epjc/s10052-014-2847-x) (2014-06-03), [arXiv:1307.3442](https://arxiv.org/abs/1307.3442) (2013-07-12).
* 277 $−$ “Determination of the top-quark pole mass and strong coupling constant from the $t‾$ production cross section in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-12-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-022/index.html), [PLB 728 (2014) 496](https://doi.org/10.1016/j.physletb.2013.12.009) (2014-01-20), [arXiv:1307.1907](https://arxiv.org/abs/1307.1907) (2014-08-21).
* 276 $−$ “The performance of the CMS muon detector in proton-proton collisions at $\sqrt{s}$ = 7 TeV at the LHC"
[CMS-MUO-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-11-001/index.html), [JINST 8 (2013) P11002](https://doi.org/10.1088/1748-0221/8/11/P11002) (2013-11-04), [arXiv:1306.6905](https://arxiv.org/abs/1306.6905) (2013-06-28).
* 275 $−$ “Search for top squarks in R-parity-violating supersymmetry using three or more leptons and b-tagged jets"
[CMS-SUS-13-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-13-003/index.html), [PRL 111 (2013) 221801](https://doi.org/10.1103/PhysRevLett.111.221801) (2013-11-25), [arXiv:1306.6643](https://arxiv.org/abs/1306.6643) (2013-06-27).
* 274 $−$ “Energy calibration and resolution of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EGM-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EGM-11-001/index.html), [JINST 8 (2013) P09009](https://doi.org/10.1088/1748-0221/8/09/P09009) (2013-09-19), [arXiv:1306.2016](https://arxiv.org/abs/1306.2016) (2013-06-09).
* 273 $−$ “Measurement of the $W^{+}W^{−}$ cross section in pp collisions at $\sqrt{s}$ = 7 TeV and limits on anomalous WW$γ$ and WWZ couplings"
[CMS-SMP-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-005/index.html), [EPJC 73 (2013) 2610](https://doi.org/10.1140/epjc/s10052-013-2610-8) (2013-10-26), [arXiv:1306.1126](https://arxiv.org/abs/1306.1126) (2013-06-05).
* 272 $−$ “Measurement of the hadronic activity in events with a Z and two jets and extraction of the cross section for the electroweak production of a Z with two jets in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FSQ-12-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-019/index.html), [JHEP 10 (2013) 062](https://doi.org/10.1007/JHEP10%282013%29062) (2013-10-10), [arXiv:1305.7389](https://arxiv.org/abs/1305.7389) (2013-05-31).
* 271 $−$ “Measurement of neutral strange particle production in the underlying event in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-010/index.html), [PRD 88 (2013) 052001](https://doi.org/10.1103/PhysRevD.88.052001) (2013-09-03), [arXiv:1305.6016](https://arxiv.org/abs/1305.6016) (2013-05-26).
* 270 $−$ “Study of exclusive two-photon production of $W^{+}W^{−}$ in pp collisions at $\sqrt{s}=$ 7 TeV and constraints on anomalous quartic gauge couplings"
[CMS-FSQ-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-010/index.html), [JHEP 07 (2013) 116](https://doi.org/10.1007/JHEP07%282013%29116) (2013-07-18), [arXiv:1305.5596](https://arxiv.org/abs/1305.5596) (2013-05-24).
* 269 $−$ “Search for gluino mediated bottom- and top-squark production in multijet final states in pp collisions at 8 TeV"
[CMS-SUS-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-024/index.html), [PLB 725 (2013) 243](https://doi.org/10.1016/j.physletb.2013.06.058) (2013-10-01), [arXiv:1305.2390](https://arxiv.org/abs/1305.2390) (2013-05-10).
* 268 $−$ “Multiplicity and transverse momentum dependence of two- and four-particle correlations in pPb and PbPb collisions"
[CMS-HIN-13-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-13-002/index.html), [PLB 724 (2013) 213](https://doi.org/10.1016/j.physletb.2013.06.028) (2013-07-23), [arXiv:1305.0609](https://arxiv.org/abs/1305.0609) (2013-05-04).
* 267 $−$ “Searches for long-lived charged particles in pp collisions at $\sqrt{s}$ = 7 and 8 TeV"
[CMS-EXO-12-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-026/index.html), [JHEP 07 (2013) 122](https://doi.org/10.1007/JHEP07%282013%29122) (2013-07-19), [arXiv:1305.0491](https://arxiv.org/abs/1305.0491) (2013-05-02).
* 266 $−$ “Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at $\sqrt{s}$ = 7 TeV and first determination of the strong coupling constant in the TeV range"
[CMS-QCD-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-003/index.html), [EPJC 73 (2013) 2604](https://doi.org/10.1140/epjc/s10052-013-2604-6) (2013-10-19), [arXiv:1304.7498](https://arxiv.org/abs/1304.7498) (2013-04-28).
* 265 $−$ “Measurement of the $Λ\_{b}^{0}$ lifetime in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-013/index.html), [JHEP 07 (2013) 163](https://doi.org/10.1007/JHEP07%282013%29163) (2013-07-26), [arXiv:1304.7495](https://arxiv.org/abs/1304.7495) (2013-04-28).
* 264 $−$ “Measurement of masses in the $t‾$ system by kinematic endpoints in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-027/index.html), [EPJC 73 (2013) 2494](https://doi.org/10.1140/epjc/s10052-013-2494-7) (2013-06-18), [arXiv:1304.5783](https://arxiv.org/abs/1304.5783) (2013-04-21).
* 263 $−$ “Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC"
[CMS-HIG-12-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-034/index.html), [EPJC 73 (2013) 2469](https://doi.org/10.1140/epjc/s10052-013-2469-8) (2013-06-14), [arXiv:1304.0213](https://arxiv.org/abs/1304.0213) (2013-03-31).
* 262 $−$ “Measurement of the $Υ\left(1S\right)$ , $Υ\left(2S\right)$, and $Υ\left(3S\right)$ cross sections in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-001/index.html), [PLB 727 (2013) 101](https://doi.org/10.1016/j.physletb.2013.10.033) (2013-11-25), [arXiv:1303.5900](https://arxiv.org/abs/1303.5900) (2013-03-24).
* 261 $−$ “Search for microscopic black holes in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-009/index.html), [JHEP 07 (2013) 178](https://doi.org/10.1007/JHEP07%282013%29178) (2013-07-29), [arXiv:1303.5338](https://arxiv.org/abs/1303.5338) (2013-03-21).
* 260 $−$ “A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider"
[CMS-CMS-00-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/CMS-00-002/index.html), [Science 338 (2012) 1569](https://doi.org/10.1126/science.1230816) (2012-12-21).
* 259 $−$ “Studies of jet mass in dijet and W/Z+jet events"
[CMS-SMP-12-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-019/index.html), [JHEP 05 (2013) 090](https://doi.org/10.1007/JHEP05%282013%29090) (2013-05-17), [arXiv:1303.4811](https://arxiv.org/abs/1303.4811) (2013-03-20).
* 258 $−$ “Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}$ = 7 and 8 TeV"
[CMS-HIG-12-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-036/index.html), [JHEP 06 (2013) 081](https://doi.org/10.1007/JHEP06%282013%29081) (2013-06-20), [arXiv:1303.4571](https://arxiv.org/abs/1303.4571) (2013-03-19).
* 257 $−$ “Measurement of associated production of vector bosons and $t‾$ at $\sqrt{s}$= 7 TeV"
[CMS-TOP-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-014/index.html), [PRL 110 (2013) 172002](https://doi.org/10.1103/PhysRevLett.110.172002) (2013-04-25), [arXiv:1303.3239](https://arxiv.org/abs/1303.3239) (2013-03-13).
* 256 $−$ “Search for supersymmetry in hadronic final states with missing transverse energy using the variables $α\_{T}$ and b-quark multiplicity in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-028/index.html), [EPJC 73 (2013) 2568](https://doi.org/10.1140/epjc/s10052-013-2568-6) (2013-09-18), [arXiv:1303.2985](https://arxiv.org/abs/1303.2985) (2013-03-12).
* 255 $−$ “Search for the standard model Higgs boson produced in association with a top-quark pair in pp collisions at the LHC"
[CMS-HIG-12-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-035/index.html), [JHEP 05 (2013) 145](https://doi.org/10.1007/JHEP05%282013%29145) (2013-05-28), [arXiv:1303.0763](https://arxiv.org/abs/1303.0763) (2013-03-04).
* 254 $−$ “Search for narrow resonances using the dijet mass spectrum in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-016/index.html), [PRD 87 (2013) 114015](https://doi.org/10.1103/PhysRevD.87.114015) (2013-06-17), [arXiv:1302.4794](https://arxiv.org/abs/1302.4794) (2013-02-20).
* 253 $−$ “Measurement of the X(3872) production cross section via decays to $J/ψπ^{+}π^{−}$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-011/index.html), [JHEP 04 (2013) 154](https://doi.org/10.1007/JHEP04%282013%29154) (2013-04-29), [arXiv:1302.3968](https://arxiv.org/abs/1302.3968) (2013-02-16).
* 252 $−$ “Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV"
[CMS-HIG-12-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-033/index.html), [PLB 722 (2013) 207-232](https://doi.org/10.1016/j.physletb.2013.04.017) (2013-05-24), [arXiv:1302.2892](https://arxiv.org/abs/1302.2892) (2013-02-12).
* 251 $−$ “Search for new physics in final states with a lepton and missing transverse energy in pp collisions at the LHC"
[CMS-EXO-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-010/index.html), [PRD 87 (2013) 072005](https://doi.org/10.1103/PhysRevD.87.072005) (2013-04-08), [arXiv:1302.2812](https://arxiv.org/abs/1302.2812) (2013-02-12).
* 250 $−$ “Study of the underlying event at forward rapidity in pp collisions at $\sqrt{s}$ = 0.9, 2.76, and 7 TeV"
[CMS-FWD-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-003/index.html), [JHEP 04 (2013) 072](https://doi.org/10.1007/JHEP04%282013%29072) (2013-04-11), [arXiv:1302.2394](https://arxiv.org/abs/1302.2394) (2013-02-11).
* 249 $−$ “Searches for Higgs bosons in pp collisions at $\sqrt{s}$ = 7 and 8 TeV in the context of four-generation and fermiophobic models"
[CMS-HIG-12-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-013/index.html), [PLB 725 (2013) 36-59](https://doi.org/10.1016/j.physletb.2013.06.043) (2013-08-09), [arXiv:1302.1764](https://arxiv.org/abs/1302.1764) (2013-02-08).
* 248 $−$ “Measurement of the $t‾$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-007/index.html), [JHEP 05 (2013) 065](https://doi.org/10.1007/JHEP05%282013%29065) (2013-05-14), [arXiv:1302.0508](https://arxiv.org/abs/1302.0508) (2013-02-03).
* 247 $−$ “Search for pair-produced dijet resonances in four-jet final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-016/index.html), [PRL 110 (2013) 141802](https://doi.org/10.1103/PhysRevLett.110.141802) (2013-04-04), [arXiv:1302.0531](https://arxiv.org/abs/1302.0531) (2013-02-03).
* 246 $−$ “Measurement of the $t‾$ production cross section in the $τ$+jets channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-004/index.html), [EPJC 73 (2013) 2386](https://doi.org/10.1140/epjc/s10052-013-2386-x) (2013-04-12), [arXiv:1301.5755](https://arxiv.org/abs/1301.5755) (2013-01-25).
* 245 $−$ “Search for contact interactions using the inclusive jet $p\_{T}$ spectrum in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-010/index.html), [PRD 87 (2013) 052017](https://doi.org/10.1103/PhysRevD.87.052017) (2013-03-26), [arXiv:1301.5023](https://arxiv.org/abs/1301.5023) (2013-01-21).
* 244 $−$ “Measurement of $W^{+}W^{−}$ and ZZ production cross sections in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SMP-12-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-024/index.html), [PLB 721 (2013) 190](https://doi.org/10.1016/j.physletb.2013.03.027) (2013-04-25), [arXiv:1301.4698](https://arxiv.org/abs/1301.4698) (2013-01-20).
* 243 $−$ “Search for physics beyond the standard model in events with $τ$ leptons, jets, and large transverse momentum imbalance in pp collisions at $\sqrt{s}$= 7 TeV"
[CMS-SUS-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-004/index.html), [EPJC 73 (2013) 2493](https://doi.org/10.1140/epjc/s10052-013-2493-8) (2013-06-11), [arXiv:1301.3792](https://arxiv.org/abs/1301.3792) (2013-01-17).
* 242 $−$ “Interpretation of searches for supersymmetry with simplified models"
[CMS-SUS-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-016/index.html), [PRD 88 (2013) 052017](https://doi.org/10.1103/PhysRevD.88.052017) (2013-09-23), [arXiv:1301.2175](https://arxiv.org/abs/1301.2175) (2013-01-10).
* 241 $−$ “Inclusive search for supersymmetry using the razor variables in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-024/index.html), [PRL 111 (2013) 081802](https://doi.org/10.1103/PhysRevLett.111.081802) (2013-08-23), [arXiv:1212.6961](https://arxiv.org/abs/1212.6961) (2013-01-01).
* 240 $−$ “Event shapes and azimuthal correlations in Z + jets events in pp collisions at $\sqrt{s}$ =7 TeV"
[CMS-EWK-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-021/index.html), [PLB 722 (2013) 238](https://doi.org/10.1016/j.physletb.2013.04.025) (2013-05-24), [arXiv:1301.1646](https://arxiv.org/abs/1301.1646) (2013-01-09).
* 239 $−$ “Search for supersymmetry in events with opposite-sign dileptons and missing transverse energy using an artificial neural network"
[CMS-SUS-11-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-018/index.html), [PRD 87 (2013) 072001](https://doi.org/10.1103/PhysRevD.87.072001) (2013-04-02), [arXiv:1301.0916](https://arxiv.org/abs/1301.0916) (2013-01-05).
* 238 $−$ “Measurement of the $t‾$ production cross section in pp collisions at $\sqrt{s}$ = 7 TeV with lepton + jets final states"
[CMS-TOP-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-003/index.html), [PLB 720 (2013) 83](https://doi.org/10.1016/j.physletb.2013.02.021) (2013-03-13), [arXiv:1212.6682](https://arxiv.org/abs/1212.6682) (2012-12-30).
* 237 $−$ “Measurements of differential jet cross sections in proton-proton collisions at $\sqrt{s}$ = 7 TeV with the CMS detector"
[CMS-QCD-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-004/index.html), [PRD 87 (2013) 112002](https://doi.org/10.1103/PhysRevD.87.112002) (2013-06-03), [arXiv:1212.6660](https://arxiv.org/abs/1212.6660) (2012-12-29).
* 236 $−$ “Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs"
[CMS-HIG-12-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-041/index.html), [PRL 110 (2013) 081803](https://doi.org/10.1103/PhysRevLett.110.081803) (2013-02-21), [arXiv:1212.6639](https://arxiv.org/abs/1212.6639) (2012-12-29).
* 235 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}$ = 7 TeV in events with a single lepton, jets, and missing transverse momentum"
[CMS-SUS-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-010/index.html), [EPJC 73 (2013) 2404](https://doi.org/10.1140/epjc/s10052-013-2404-z) (2013-05-08), [arXiv:1212.6428](https://arxiv.org/abs/1212.6428) (2012-12-28).
* 234 $−$ “Search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}$ = 8 TeV"
[CMS-SUS-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-017/index.html), [JHEP 03 (2013) 037](https://doi.org/10.1007/JHEP03%282013%29037) (2013-03-06), [arXiv:1212.6194](https://arxiv.org/abs/1212.6194) (2012-12-26).
* 233 $−$ “Search for heavy narrow dilepton resonances in pp collisions at $\sqrt{s}$ = 7 TeV and $\sqrt{s}$ = 8 TeV"
[CMS-EXO-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-015/index.html), [PLB 720 (2013) 63](https://doi.org/10.1016/j.physletb.2013.02.003) (2013-03-13), [arXiv:1212.6175](https://arxiv.org/abs/1212.6175) (2012-12-24).
* 232 $−$ “Search for contact interactions in $μ^{+}μ^{−}$ events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-009/index.html), [PRD 87 (2013) 032001](https://doi.org/10.1103/PhysRevD.87.032001) (2013-02-01), [arXiv:1212.4563](https://arxiv.org/abs/1212.4563) (2012-12-20).
* 231 $−$ “Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV"
[CMS-EXO-11-095](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-095/index.html), [PLB 723 (2013) 280](https://doi.org/10.1016/j.physletb.2013.05.040) (2013-06-25), [arXiv:1212.1910](https://arxiv.org/abs/1212.1910) (2012-12-09).
* 230 $−$ “Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-035/index.html), [PLB 722 (2013) 273](https://doi.org/10.1016/j.physletb.2013.04.027) (2013-05-24), [arXiv:1212.1838](https://arxiv.org/abs/1212.1838) (2012-12-09).
* 229 $−$ “Search for exotic resonances decaying into WZ/ZZ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-014/index.html), [JHEP 02 (2013) 036](https://doi.org/10.1007/JHEP02%282013%29036) (2013-02-07), [arXiv:1211.5779](https://arxiv.org/abs/1211.5779) (2012-11-25).
* 228 $−$ “Measurement of the ZZ production cross section and search for anomalous couplings in $2ℓ2ℓ^{′}$ final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-007/index.html), [JHEP 01 (2013) 063](https://doi.org/10.1007/JHEP01%282013%29063) (2013-01-09), [arXiv:1211.4890](https://arxiv.org/abs/1211.4890) (2012-11-20).
* 227 $−$ “Search for new physics in events with photons, jets, and missing transverse energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-001/index.html), [JHEP 03 (2013) 111](https://doi.org/10.1007/JHEP03%282013%29111) (2013-03-19), [arXiv:1211.4784](https://arxiv.org/abs/1211.4784) (2012-11-20).
* 226 $−$ “Identification of b-quark jets with the CMS experiment"
[CMS-BTV-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BTV-12-001/index.html), [JINST 8 (2013) P04013](https://doi.org/10.1088/1748-0221/8/04/P04013) (2013-04-13), [arXiv:1211.4462](https://arxiv.org/abs/1211.4462) (2012-11-19).
* 225 $−$ “Search for Z’ resonances decaying to $t‾$ in dilepton+jets final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-010/index.html), [PRD 87 (2013) 072002](https://doi.org/10.1103/PhysRevD.87.072002) (2013-04-03), [arXiv:1211.3338](https://arxiv.org/abs/1211.3338) (2012-11-14).
* 224 $−$ “Search for supersymmetry in final states with a single lepton, b-quark jets, and missing transverse energy in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-028/index.html), [PRD 87 (2013) 052006](https://doi.org/10.1103/PhysRevD.87.052006) (2013-03-05), [arXiv:1211.3143](https://arxiv.org/abs/1211.3143) (2012-11-14).
* 223 $−$ “Search in leptonic channels for heavy resonances decaying to long-lived neutral particles"
[CMS-EXO-11-101](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-101/index.html), [JHEP 02 (2013) 085](https://doi.org/10.1007/JHEP02%282013%29085) (2013-02-14), [arXiv:1211.2472](https://arxiv.org/abs/1211.2472) (2012-11-12).
* 222 $−$ “Measurement of differential top-quark pair production cross sections in pp colisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-013/index.html), [EPJC 73 (2013) 2339](https://doi.org/10.1140/epjc/s10052-013-2339-4) (2013-03-19), [arXiv:1211.2220](https://arxiv.org/abs/1211.2220) (2012-11-11).
* 221 $−$ “Search for supersymmetry in final states with missing transverse energy and 0, 1, 2, or at least 3 b-quark jets in 7 TeV pp collisions using the variable $α\_{T}$"
[CMS-SUS-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-022/index.html), [JHEP 01 (2013) 077](https://doi.org/10.1007/JHEP01%282013%29077) (2013-01-10), [arXiv:1210.8115](https://arxiv.org/abs/1210.8115) (2012-10-30).
* 220 $−$ “Measurement of the sum of WW and WZ production with W+dijet events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-015/index.html), [EPJC 73 (2013) 2283](https://doi.org/10.1140/epjc/s10052-013-2283-3) (2013-02-08), [arXiv:1210.7544](https://arxiv.org/abs/1210.7544) (2012-10-29).
* 219 $−$ “Search for heavy quarks decaying into a top quark and a W or Z boson using lepton + jets events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-B2G-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-12-004/index.html), [JHEP 01 (2013) 154](https://doi.org/10.1007/JHEP01%282013%29154) (2013-01-24), [arXiv:1210.7471](https://arxiv.org/abs/1210.7471) (2012-10-28).
* 218 $−$ “Search for a non-standard-model Higgs boson decaying to a pair of new light bosons in four-muon final states"
[CMS-EXO-12-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-012/index.html), [PLB 726 (2013) 564](https://doi.org/10.1016/j.physletb.2013.09.009) (2013-11-04), [arXiv:1210.7619](https://arxiv.org/abs/1210.7619) (2012-10-27).
* 217 $−$ “Measurement of the inelastic proton-proton cross section at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-001/index.html), [PLB 722 (2013) 5-27](https://doi.org/10.1016/j.physletb.2013.03.024) (2013-07-16), [arXiv:1210.6718](https://arxiv.org/abs/1210.6718) (2012-10-27).
* 216 $−$ “Search for pair production of third-generation leptoquarks and top squarks in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-002/index.html), [PRL 110 (2013) 081801](https://doi.org/10.1103/PhysRevLett.110.081801) (2013-02-20), [arXiv:1210.5629](https://arxiv.org/abs/1210.5629) (2012-10-23).
* 215 $−$ “Search for third-generation leptoquarks and scalar bottom quarks in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-030/index.html), [JHEP 12 (2012) 055](https://doi.org/10.1007/JHEP12%282012%29055) (2012-12-11), [arXiv:1210.5627](https://arxiv.org/abs/1210.5627) (2012-10-23).
* 214 $−$ “Observation of long-range, near-side angular correlations in pPb collisions at the LHC"
[CMS-HIN-12-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-12-015/index.html), [PLB 718 (2013) 795-814](https://doi.org/10.1016/j.physletb.2012.11.025) (2013-01-08), [arXiv:1210.5482](https://arxiv.org/abs/1210.5482) (2012-10-19).
* 213 $−$ “Observation of Z decays to four leptons with the CMS detector at the LHC"
[CMS-SMP-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-009/index.html), [JHEP 12 (2012) 034](https://doi.org/10.1007/JHEP12%282012%29034) (2012-12-07), [arXiv:1210.3844](https://arxiv.org/abs/1210.3844) (2012-10-15).
* 212 $−$ “Search for fractionally charged particles in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-074](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-074/index.html), [PRD 87 (2013) 092008](https://doi.org/10.1103/PhysRevD.87.092008) (2013-05-21), [arXiv:1210.2311](https://arxiv.org/abs/1210.2311) (2012-10-08).
* 211 $−$ “Search for heavy neutrinos and W$​\_{R}$ bosons with right-handed couplings in a left-right symmetric model in pp collisions at 7 TeV"
[CMS-EXO-11-091](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-091/index.html), [PRL 109 (2012) 261802](https://doi.org/10.1103/PhysRevLett.109.261802) (2012-12-27), [arXiv:1210.2402](https://arxiv.org/abs/1210.2402) (2012-10-08).
* 210 $−$ “Search for narrow resonances and quantum black holes in inclusive and b-tagged dijet mass spectra from pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-094](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-094/index.html), [JHEP 01 (2013) 013](https://doi.org/10.1007/JHEP01%282013%29013) (2013-01-02), [arXiv:1210.2387](https://arxiv.org/abs/1210.2387) (2012-10-08).
* 209 $−$ “Search for excited leptons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-034](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-034/index.html), [PLB 720 (2013) 309-329](https://doi.org/10.1016/j.physletb.2013.02.031) (2013-03-26), [arXiv:1210.2422](https://arxiv.org/abs/1210.2422) (2012-10-07).
* 208 $−$ “Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-014/index.html), [PLB 719 (2013) 42-61](https://doi.org/10.1016/j.physletb.2012.12.055) (2013-02-12), [arXiv:1210.2052](https://arxiv.org/abs/1210.2052) (2012-10-07).
* 207 $−$ “Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism"
[CMS-EXO-11-073](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-073/index.html), [PLB 718 (2012) 348-368](https://doi.org/10.1016/j.physletb.2012.10.070) (2012-12-05), [arXiv:1210.1797](https://arxiv.org/abs/1210.1797) (2012-10-05).
* 206 $−$ “Measurement of the relative prompt production rate of $χ\_{c2}$ and $χ\_{c1}$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-010/index.html), [EPJC 72 (2012) 2251](https://doi.org/10.1140/epjc/s10052-012-2251-3) (2012-12-14), [arXiv:1210.0875](https://arxiv.org/abs/1210.0875) (2012-10-03).
* 205 $−$ “Search for anomalous production of highly boosted Z bosons decaying to $μ^{+}μ^{−}$ in proton–proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-025/index.html), [PLB 722 (2013) 28-47](https://doi.org/10.1016/j.physletb.2013.03.037) (2013-07-16), [arXiv:1210.0867](https://arxiv.org/abs/1210.0867) (2012-10-02).
* 204 $−$ “Search for electroweak production of charginos and neutralinos using leptonic final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-12-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-006/index.html), [JHEP 11 (2012) 147](https://doi.org/10.1007/JHEP11%282012%29147) (2012-11-27), [arXiv:1209.6620](https://arxiv.org/abs/1209.6620) (2012-09-29).
* 203 $−$ “Measurement of the single-top-quark t-channel cross section in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-021/index.html), [JHEP 12 (2012) 035](https://doi.org/10.1007/JHEP12%282012%29035) (2012-11-07), [arXiv:1209.4533](https://arxiv.org/abs/1209.4533) (2012-09-20).
* 202 $−$ “Search for resonant $t‾$ production in lepton+jets events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-12-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-12-017/index.html), [JHEP 12 (2012) 015](https://doi.org/10.1007/JHEP12%282012%29015) (2012-12-04), [arXiv:1209.4397](https://arxiv.org/abs/1209.4397) (2012-09-20).
* 201 $−$ “Search for the standard model Higgs boson produced in association with W and Z bosons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-12-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-010/index.html), [JHEP 11 (2012) 088](https://doi.org/10.1007/JHEP11%282012%29088) (2012-11-15), [arXiv:1209.3937](https://arxiv.org/abs/1209.3937) (2012-09-18).
* 200 $−$ “Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q‾ℓ^{+}ℓ^{−}$ final state"
[CMS-EXO-11-102](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-102/index.html), [PLB 718 (2013) 1208](https://doi.org/10.1016/j.physletb.2012.11.063) (2013-01-29), [arXiv:1209.3807](https://arxiv.org/abs/1209.3807) (2012-09-17).
* 199 $−$ “Evidence for associated production of a single top quark and W boson in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-022/index.html), [PRL 110 (2013) 022003](https://doi.org/10.1103/PhysRevLett.110.022003) (2013-01-11), [arXiv:1209.3489](https://arxiv.org/abs/1209.3489) (2012-09-16).
* 198 $−$ “Measurement of the $Υ\left(1S\right)$, $Υ\left(2S\right)$ and $Υ\left(3S\right)$ polarizations in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-023/index.html), [PRL 110 (2013) 081802](https://doi.org/10.1103/PhysRevLett.110.081802) (2013-02-20), [arXiv:1209.2922](https://arxiv.org/abs/1209.2922) (2012-09-14).
* 197 $−$ “Measurement of the top-quark mass in $t‾$ events with dilepton final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-016/index.html), [EPJC 72 (2012) 2202](https://doi.org/10.1140/epjc/s10052-012-2202-z) (2012-10-31), [arXiv:1209.2393](https://arxiv.org/abs/1209.2393) (2012-09-12).
* 196 $−$ “Measurement of the top-quark mass in $t‾$ events with lepton+jets final states in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-015/index.html), [JHEP 12 (2012) 105](https://doi.org/10.1007/JHEP12%282012%29105) (2012-12-19), [arXiv:1209.2319](https://arxiv.org/abs/1209.2319) (2012-09-12).
* 195 $−$ “Observation of a diffractive contribution to dijet production in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-004/index.html), [PRD 87 (2013) 012006](https://doi.org/10.1103/PhysRevD.87.012006) (2013-01-08), [arXiv:1209.1805](https://arxiv.org/abs/1209.1805) (2012-09-10).
* 194 $−$ “Search for exclusive or semi-exclusive $γγ$ production and observation of exclusive and semi-exclusive $e^{+}e^{−}$ production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-004/index.html), [JHEP 11 (2012) 080](https://doi.org/10.1007/JHEP11%282012%29080) (2012-11-15), [arXiv:1209.1666](https://arxiv.org/abs/1209.1666) (2012-09-08).
* 193 $−$ “Combined search for the quarks of a sequential fourth generation"
[CMS-EXO-11-098](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-098/index.html), [PRD 86 (2012) 112003](https://doi.org/10.1103/PhysRevD.86.112003) (2012-12-12), [arXiv:1209.1062](https://arxiv.org/abs/1209.1062) (2012-09-06).
* 192 $−$ “Search for pair produced fourth-generation up-type quarks in pp collisions at $\sqrt{s}$ = 7 TeV with a lepton in the final state"
[CMS-EXO-11-099](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-099/index.html), [PLB 718 (2012) 307-328](https://doi.org/10.1016/j.physletb.2012.10.038) (2012-12-05), [arXiv:1209.0471](https://arxiv.org/abs/1209.0471) (2012-09-05).
* 191 $−$ “Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV"
[CMS-SUS-12-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-003/index.html), [PRD 86 (2012) 072010](https://doi.org/10.1103/PhysRevD.86.072010) (2012-10-26), [arXiv:1208.4859](https://arxiv.org/abs/1208.4859) (2012-08-23).
* 190 $−$ “Study of the dijet mass spectrum in pp $\rightarrow $ W + jets events at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-11-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-017/index.html), [PRL 109 (2012) 251801](https://doi.org/10.1103/PhysRevLett.109.251801) (2012-12-21), [arXiv:1208.3477](https://arxiv.org/abs/1208.3477) (2012-08-17).
* 189 $−$ “Search for three-jet resonances in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-060](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-060/index.html), [PLB 718 (2012) 329-347](https://doi.org/10.1016/j.physletb.2012.10.048) (2012-12-05), [arXiv:1208.2931](https://arxiv.org/abs/1208.2931) (2012-08-14).
* 188 $−$ “Observation of sequential Upsilon suppression in PbPb collisions"
[CMS-HIN-11-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-011/index.html), [PRL 109 (2012) 222301](https://doi.org/10.1103/PhysRevLett.109.222301) (2012-11-26), [arXiv:1208.2826](https://arxiv.org/abs/1208.2826) (2012-08-14).
* 187 $−$ “Measurement of the $t‾$ production cross section in the dilepton channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-005/index.html), [JHEP 11 (2012) 067](https://doi.org/10.1007/JHEP11%282012%29067) (2012-11-13), [arXiv:1208.2671](https://arxiv.org/abs/1208.2671) (2012-08-14).
* 186 $−$ “Measurement of the azimuthal anisotropy of neutral pions in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-009/index.html), [PRL 110 (2013) 042301](https://doi.org/10.1103/PhysRevLett.110.042301) (2013-01-22), [arXiv:1208.2470](https://arxiv.org/abs/1208.2470) (2012-08-13).
* 185 $−$ “Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV"
[CMS-TOP-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-028/index.html), [PLB 718 (2013) 1252-1272](https://doi.org/10.1016/j.physletb.2012.12.045) (2013-01-29), [arXiv:1208.0957](https://arxiv.org/abs/1208.0957) (2012-08-05).
* 184 $−$ “Search for a W’ boson decaying to a bottom quark and a top quark in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-12-001/index.html), [PLB 718 (2013) 1229-1251](https://doi.org/10.1016/j.physletb.2012.12.008) (2013-01-29), [arXiv:1208.0956](https://arxiv.org/abs/1208.0956) (2012-08-04).
* 183 $−$ “Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC"
[CMS-HIG-12-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-028/index.html), [PLB 716 (2012) 30](https://doi.org/10.1016/j.physletb.2012.08.021) (2012-08-17), [arXiv:1207.7235](https://arxiv.org/abs/1207.7235) (2012-07-31).
* 182 $−$ “Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at $\sqrt{s}$= 7 TeV"
[CMS-EXO-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-028/index.html), [PRD 86 (2012) 052013](https://doi.org/10.1103/PhysRevD.86.052013) (2012-09-27), [arXiv:1207.5406](https://arxiv.org/abs/1207.5406) (2012-07-26).
* 181 $−$ “Search for heavy Majorana neutrinos in $μ^{\pm }μ^{\pm }$ + jets and $e^{\pm }e^{\pm }$ + jets events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-076](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-076/index.html), [PLB 717 (2012) 109-128](https://doi.org/10.1016/j.physletb.2012.09.012) (2013-07-16), [arXiv:1207.6079](https://arxiv.org/abs/1207.6079) (2012-07-25).
* 180 $−$ “Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s}$ = 0.9, 2.76, and 7 TeV"
[CMS-FSQ-12-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/FSQ-12-014/index.html), [EPJC 72 (2012) 2164](https://doi.org/10.1140/epjc/s10052-012-2164-1) (2012-10-03), [arXiv:1207.4724](https://arxiv.org/abs/1207.4724) (2012-07-20).
* 179 $−$ “Forward-backward asymmetry of Drell-Yan lepton pairs in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-004/index.html), [PLB 718 (2013) 752-772](https://doi.org/10.1016/j.physletb.2012.10.082) (2013-01-08), [arXiv:1207.3973](https://arxiv.org/abs/1207.3973) (2012-07-17).
* 178 $−$ “A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-12-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-005/index.html), [EPJC 72 (2012) 2189](https://doi.org/10.1140/epjc/s10052-012-2189-5) (2012-11-07), [arXiv:1207.2666](https://arxiv.org/abs/1207.2666) (2012-07-11).
* 177 $−$ “Measurement of the underlying event activity in pp collisions at $\sqrt{s}$ = 0.9 and 7 TeV with the novel jet-area/median approach"
[CMS-QCD-10-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-021/index.html), [JHEP 08 (2012) 130](https://doi.org/10.1007/JHEP08%282012%29130) (2012-08-27), [arXiv:1207.2392](https://arxiv.org/abs/1207.2392) (2012-07-10).
* 176 $−$ “Search for supersymmetry in hadronic final states using $M\_{T2}$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-12-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-002/index.html), [JHEP 10 (2012) 018](https://doi.org/10.1007/JHEP10%282012%29018) (2012-10-02), [arXiv:1207.1798](https://arxiv.org/abs/1207.1798) (2012-07-08).
* 175 $−$ “Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-12-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-12-011/index.html), [PRL 109 (2012) 171803](https://doi.org/10.1103/PhysRevLett.109.171803) (2012-10-26), [arXiv:1207.1898](https://arxiv.org/abs/1207.1898) (2012-07-08).
* 174 $−$ “Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-12-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-009/index.html), [JHEP 09 (2012) 111](https://doi.org/10.1007/JHEP09%282012%29111) (2012-09-25), [arXiv:1207.1130](https://arxiv.org/abs/1207.1130) (2012-07-05).
* 173 $−$ “Search for new physics with long-lived particles decaying to photons and missing energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-067](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-067/index.html), [JHEP 11 (2012) 172](https://doi.org/10.1007/JHEP11%282012%29172) (2012-11-30), [arXiv:1207.0627](https://arxiv.org/abs/1207.0627) (2012-07-03).
* 172 $−$ “Inclusive and differential measurements of the $t‾$ charge asymmetry in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-030](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-030/index.html), [PLB 717 (2012) 129-150](https://doi.org/10.1016/j.physletb.2012.09.028) (2013-07-16), [arXiv:1207.0065](https://arxiv.org/abs/1207.0065) (2012-06-30).
* 171 $−$ “Search for stopped long-lived particles produced in pp collisions at $\sqrt{s}$ =7 TeV"
[CMS-EXO-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-020/index.html), [JHEP 08 (2012) 026](https://doi.org/10.1007/JHEP08%282012%29026) (2012-08-03), [arXiv:1207.0106](https://arxiv.org/abs/1207.0106) (2012-06-30).
* 170 $−$ “Search for a light pseudoscalar Higgs boson in the dimuon decay channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-12-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-12-004/index.html), [PRL 109 (2012) 121801](https://doi.org/10.1103/PhysRevLett.109.121801) (2012-09-20), [arXiv:1206.6326](https://arxiv.org/abs/1206.6326) (2012-06-28).
* 169 $−$ “Search for dark matter and large extra dimensions in monojet events in pp collisions at $\sqrt{s}$= 7 TeV"
[CMS-EXO-11-059](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-059/index.html), [JHEP 09 (2012) 094](https://doi.org/10.1007/JHEP09%282012%29094) (2012-09-21), [arXiv:1206.5663](https://arxiv.org/abs/1206.5663) (2012-06-25).
* 168 $−$ “Performance of CMS muon reconstruction in pp collision events at $\sqrt{s}=$ 7 TeV"
[CMS-MUO-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-10-004/index.html), [JINST 7 (2012) P10002](https://doi.org/10.1088/1748-0221/7/10/P10002) (2012-10-05), [arXiv:1206.4071](https://arxiv.org/abs/1206.4071) (2012-06-19).
* 167 $−$ “Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-011/index.html), [PLB 718 (2013) 815-840](https://doi.org/10.1016/j.physletb.2012.11.036) (2013-01-08), [arXiv:1206.3949](https://arxiv.org/abs/1206.3949) (2012-06-18).
* 166 $−$ “Search for charge-asymmetric production of W’ bosons in top pair + jet events from pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-056](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-056/index.html), [PLB 717 (2012) 351-370](https://doi.org/10.1016/j.physletb.2012.09.048) (2013-07-16), [arXiv:1206.3921](https://arxiv.org/abs/1206.3921) (2012-06-18).
* 165 $−$ “Measurement of the electron charge asymmetry in inclusive W production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SMP-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-12-001/index.html), [PRL 109 (2012) 111806](https://doi.org/10.1103/PhysRevLett.109.111806) (2012-09-11), [arXiv:1206.2598](https://arxiv.org/abs/1206.2598) (2012-06-12).
* 164 $−$ “Search for high mass resonances decaying into $τ$ lepton pairs in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-031/index.html), [PLB 716 (2012) 82-102](https://doi.org/10.1016/j.physletb.2012.07.062) (2013-07-16), [arXiv:1206.1725](https://arxiv.org/abs/1206.1725) (2012-06-09).
* 163 $−$ “Search for narrow resonances in dilepton mass spectra in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-019/index.html), [PLB 714 (2012) 158-179](https://doi.org/10.1016/j.physletb.2012.06.051) (2013-07-16), [arXiv:1206.1849](https://arxiv.org/abs/1206.1849) (2012-06-09).
* 162 $−$ “Search for a W’ or Techni-$ρ$ Decaying into WZ in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-041](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-041/index.html), [PRL 109 (2012) 141801](https://doi.org/10.1103/PhysRevLett.109.141801) (2012-10-02), [arXiv:1206.0433](https://arxiv.org/abs/1206.0433) (2012-06-03).
* 161 $−$ “Study of W boson production in PbPb and pp collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-11-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-008/index.html), [PLB 715 (2012) 66-87](https://doi.org/10.1016/j.physletb.2012.07.025) (2013-07-16), [arXiv:1205.6334](https://arxiv.org/abs/1205.6334) (2012-05-29).
* 160 $−$ “Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy"
[CMS-SUS-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-010/index.html), [PRL 109 (2012) 071803](https://doi.org/10.1103/PhysRevLett.109.071803) (2012-08-16), [arXiv:1205.6615](https://arxiv.org/abs/1205.6615) (2012-05-30).
* 159 $−$ “Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s\_{NN}}$= 2.76 TeV"
[CMS-HIN-11-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-004/index.html), [JHEP 10 (2012) 087](https://doi.org/10.1007/JHEP10%282012%29087) (2012-10-12), [arXiv:1205.5872](https://arxiv.org/abs/1205.5872) (2012-05-26).
* 158 $−$ “Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-019/index.html), [JHEP 07 (2012) 143](https://doi.org/10.1007/JHEP07%282012%29143) (2012-07-24), [arXiv:1205.5736](https://arxiv.org/abs/1205.5736) (2012-05-25).
* 157 $−$ “Search for new physics in events with same-sign dileptons and b-tagged jets in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-020/index.html), [JHEP 08 (2012) 110](https://doi.org/10.1007/JHEP08%282012%29110) (2012-08-22), [arXiv:1205.3933](https://arxiv.org/abs/1205.3933) (2012-05-17).
* 156 $−$ “Measurement of the pseudorapidity and centrality dependence of the transverse energy density in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-003/index.html), [PRL 109 (2012) 152303](https://doi.org/10.1103/PhysRevLett.109.152303) (2012-10-08), [arXiv:1205.2488](https://arxiv.org/abs/1205.2488) (2012-05-12).
* 155 $−$ “Measurement of the $Λ\_{b}$ cross section and the $\overline{Λ}\_{b}$ to $Λ\_{b}$ ratio with J/$ψΛ$ decays in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-007/index.html), [PLB 714 (2012) 136-157](https://doi.org/10.1016/j.physletb.2012.05.063) (2013-07-16), [arXiv:1205.0594](https://arxiv.org/abs/1205.0594) (2012-05-04).
* 154 $−$ “Search for heavy long-lived charged particles in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-022/index.html), [PLB 713 (2012) 408-433](https://doi.org/10.1016/j.physletb.2012.06.023) (2013-07-16), [arXiv:1205.0272](https://arxiv.org/abs/1205.0272) (2012-05-02).
* 153 $−$ “Studies of jet quenching using isolated-photon+jet correlations in PbPb and pp collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-010/index.html), [PLB 718 (2013) 773-794](https://doi.org/10.1016/j.physletb.2012.11.003) (2013-01-08), [arXiv:1205.0206](https://arxiv.org/abs/1205.0206) (2012-05-01).
* 152 $−$ “Observation of a New $Ξ\_{b}$ Baryon"
[CMS-BPH-12-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-12-001/index.html), [PRL 108 (2012) 252002](https://doi.org/10.1103/PhysRevLett.108.252002) (2012-06-21), [arXiv:1204.5955](https://arxiv.org/abs/1204.5955) (2012-04-27).
* 151 $−$ “Search for anomalous production of multilepton events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-013/index.html), [JHEP 06 (2012) 169](https://doi.org/10.1007/JHEP06%282012%29169) (2012-06-29), [arXiv:1204.5341](https://arxiv.org/abs/1204.5341) (2012-04-24).
* 150 $−$ “Search for leptonic decays of W’ bosons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-024/index.html), [JHEP 08 (2012) 023](https://doi.org/10.1007/JHEP08%282012%29023) (2012-08-03), [arXiv:1204.4764](https://arxiv.org/abs/1204.4764) (2012-04-20).
* 149 $−$ “Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-021](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-021/index.html), [PLB 716 (2012) 260-284](https://doi.org/10.1016/j.physletb.2012.08.026) (2013-07-16), [arXiv:1204.3774](https://arxiv.org/abs/1204.3774) (2012-04-17).
* 148 $−$ “Shape, transverse size, and charged hadron multiplicity of jets in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-029/index.html), [JHEP 06 (2012) 160](https://doi.org/10.1007/JHEP06%282012%29160) (2012-06-27), [arXiv:1204.3170](https://arxiv.org/abs/1204.3170) (2012-04-14).
* 147 $−$ “Measurement of the mass difference between top and antitop quarks"
[CMS-TOP-11-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-019/index.html), [JHEP 06 (2012) 109](https://doi.org/10.1007/JHEP06%282012%29109) (2012-06-19), [arXiv:1204.2807](https://arxiv.org/abs/1204.2807) (2012-04-12).
* 146 $−$ “Search for anomalous $t‾$ production in the highly-boosted all-hadronic final state"
[CMS-EXO-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-006/index.html), [JHEP 09 (2012) 029](https://doi.org/10.1007/JHEP09%282012%29029) (2012-09-11), [arXiv:1204.2488](https://arxiv.org/abs/1204.2488) (2012-04-11).
* 145 $−$ “Azimuthal anisotropy of charged particles at high transverse momenta in PbPb collisions at $\sqrt{s\_{NN}}=$ 2.76 TeV"
[CMS-HIN-11-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-012/index.html), [PRL 109 (2012) 022301](https://doi.org/10.1103/PhysRevLett.109.022301) (2012-07-10), [arXiv:1204.1850](https://arxiv.org/abs/1204.1850) (2012-04-09).
* 144 $−$ “Measurement of the Z/$γ^{\*}$+b-jet cross section in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-11-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-012/index.html), [JHEP 06 (2012) 126](https://doi.org/10.1007/JHEP06%282012%29126) (2012-06-22), [arXiv:1204.1643](https://arxiv.org/abs/1204.1643) (2012-04-08).
* 143 $−$ “Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-11-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-11-012/index.html), [EPJC 72 (2012) 2080](https://doi.org/10.1140/epjc/s10052-012-2080-4) (2012-09-20), [arXiv:1204.1411](https://arxiv.org/abs/1204.1411) (2012-04-06).
* 142 $−$ “Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-002/index.html), [PRC 87 (2013) 014902](https://doi.org/10.1103/PhysRevC.87.014902) (2013-01-07), [arXiv:1204.1409](https://arxiv.org/abs/1204.1409) (2012-04-06).
* 141 $−$ “Search for heavy bottom-like quarks in 4.9 inverse femtobarns of pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-036](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-036/index.html), [JHEP 05 (2012) 123](https://doi.org/10.1007/JHEP05%282012%29123) (2012-05-25), [arXiv:1204.1088](https://arxiv.org/abs/1204.1088) (2012-04-05).
* 140 $−$ “Search for Dark Matter and Large Extra Dimensions in pp Collisions Yielding a Photon and Missing Transverse Energy"
[CMS-EXO-11-096](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-096/index.html), [PRL 108 (2012) 261803](https://doi.org/10.1103/PhysRevLett.108.261803) (2012-06-27), [arXiv:1204.0821](https://arxiv.org/abs/1204.0821) (2012-04-03).
* 139 $−$ “Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-014/index.html), [EPJC 72 (2012) 2216](https://doi.org/10.1140/epjc/s10052-012-2216-6) (2012-11-16), [arXiv:1204.0696](https://arxiv.org/abs/1204.0696) (2012-04-03).
* 138 $−$ “Measurement of the top quark pair production cross section in pp collisions at $\sqrt{s}$ = 7 TeV in dilepton final states containing a $τ$"
[CMS-TOP-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-006/index.html), [PRD 85 (2012) 112007](https://doi.org/10.1103/PhysRevD.85.112007) (2012-06-19), [arXiv:1203.6810](https://arxiv.org/abs/1203.6810) (2012-03-30).
* 137 $−$ “Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-050](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-050/index.html), [PLB 716 (2012) 103-121](https://doi.org/10.1016/j.physletb.2012.07.059) (2013-07-16), [arXiv:1203.5410](https://arxiv.org/abs/1203.5410) (2012-03-24).
* 136 $−$ “Search for $B\_{s}^{0}\rightarrow μ^{+}μ^{−}$ and $B^{0}\rightarrow μ^{+}μ^{−}$ decays"
[CMS-BPH-11-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-020/index.html), [JHEP 04 (2012) 033](https://doi.org/10.1007/JHEP04%282012%29033) (2012-04-06), [arXiv:1203.3976](https://arxiv.org/abs/1203.3976) (2012-03-19).
* 135 $−$ “Measurement of the cross section for production of b b-bar X, decaying to muons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-015/index.html), [JHEP 06 (2012) 110](https://doi.org/10.1007/JHEP06%282012%29110) (2012-06-19), [arXiv:1203.3458](https://arxiv.org/abs/1203.3458) (2012-03-15).
* 134 $−$ “Search for microscopic black holes in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-071](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-071/index.html), [JHEP 04 (2012) 061](https://doi.org/10.1007/JHEP04%282012%29061) (2012-04-12), [arXiv:1202.6396](https://arxiv.org/abs/1202.6396) (2012-03-01).
* 133 $−$ “Search for quark compositeness in dijet angular distributions from pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-017/index.html), [JHEP 05 (2012) 055](https://doi.org/10.1007/JHEP05%282012%29055) (2012-05-14), [arXiv:1202.5535](https://arxiv.org/abs/1202.5535) (2012-02-28).
* 132 $−$ “Jet momentum dependence of jet quenching in PbPb collisions at $\sqrt{s\_{NN}}$=2.76 TeV"
[CMS-HIN-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-013/index.html), [PLB 712 (2012) 176-197](https://doi.org/10.1016/j.physletb.2012.04.058) (2013-07-16), [arXiv:1202.5022](https://arxiv.org/abs/1202.5022) (2012-02-22).
* 131 $−$ “Inclusive b-jet production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-022/index.html), [JHEP 04 (2012) 084](https://doi.org/10.1007/JHEP04%282012%29084) (2012-04-17), [arXiv:1202.4617](https://arxiv.org/abs/1202.4617) (2012-02-21).
* 130 $−$ “Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-031](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-031/index.html), [PLB 710 (2012) 284-306](https://doi.org/10.1016/j.physletb.2012.02.085) (2013-07-16), [arXiv:1202.4195](https://arxiv.org/abs/1202.4195) (2012-02-20).
* 129 $−$ “Search for neutral Higgs bosons decaying to tau pairs in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-029](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-029/index.html), [PLB 713 (2012) 68-90](https://doi.org/10.1016/j.physletb.2012.05.028) (2013-07-16), [arXiv:1202.4083](https://arxiv.org/abs/1202.4083) (2012-02-18).
* 128 $−$ “Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-087](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-087/index.html), [PLB 711 (2012) 15-34](https://doi.org/10.1016/j.physletb.2012.03.029) (2013-07-16), [arXiv:1202.3827](https://arxiv.org/abs/1202.3827) (2012-02-17).
* 127 $−$ “Search for the standard model Higgs boson in the $H\rightarrow ZZ\rightarrow ℓ^{+}ℓ^{−}τ^{+}τ^{−}$ decay channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-028](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-028/index.html), [JHEP 03 (2012) 081](https://doi.org/10.1007/JHEP03%282012%29081) (2012-03-26), [arXiv:1202.3617](https://arxiv.org/abs/1202.3617) (2012-02-16).
* 126 $−$ “Search for the standard model Higgs boson in the $H\rightarrow ZZ\rightarrow 2l2ν$ channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-026/index.html), [JHEP 03 (2012) 040](https://doi.org/10.1007/JHEP03%282012%29040) (2012-03-13), [arXiv:1202.3478](https://arxiv.org/abs/1202.3478) (2012-02-16).
* 125 $−$ “Study of high-$p\_{T}$ charged particle suppression in PbPb compared to pp collisions at $\sqrt{s\_{NN}}$=2.76 TeV"
[CMS-HIN-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-005/index.html), [EPJC 72 (2012) 1945](https://doi.org/10.1140/epjc/s10052-012-1945-x) (2012-03-29), [arXiv:1202.2554](https://arxiv.org/abs/1202.2554) (2012-02-12).
* 124 $−$ “Search for the standard model Higgs boson in the decay channel $H\rightarrow ZZ\rightarrow 4ℓ$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-025/index.html), [PRL 108 (2012) 111804](https://doi.org/10.1103/PhysRevLett.108.111804) (2012-03-13), [arXiv:1202.1997](https://arxiv.org/abs/1202.1997) (2012-02-09).
* 123 $−$ “Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-033](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-033/index.html), [PLB 710 (2012) 403-425](https://doi.org/10.1016/j.physletb.2012.03.003) (2013-07-16), [arXiv:1202.1487](https://arxiv.org/abs/1202.1487) (2012-02-07).
* 122 $−$ “Search for the standard model Higgs boson decaying to $W^{+}W^{−}$ in the fully leptonic final state in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-024](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-024/index.html), [PLB 710 (2012) 91-113](https://doi.org/10.1016/j.physletb.2012.02.076) (2013-07-16), [arXiv:1202.1489](https://arxiv.org/abs/1202.1489) (2012-02-07).
* 121 $−$ “Search for a Higgs boson in the decay channel $H\rightarrow ZZ^{\left(\*\right)}\rightarrow q‾ℓ^{−}ℓ^{+}$ in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-027](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-027/index.html), [JHEP 04 (2012) 036](https://doi.org/10.1007/JHEP04%282012%29036) (2012-04-06), [arXiv:1202.1416](https://arxiv.org/abs/1202.1416) (2012-02-07).
* 120 $−$ “Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-11-032](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-11-032/index.html), [PLB 710 (2012) 26-48](https://doi.org/10.1016/j.physletb.2012.02.064) (2013-07-16), [arXiv:1202.1488](https://arxiv.org/abs/1202.1488) (2012-02-07).
* 119 $−$ “Measurement of the inclusive production cross sections for forward jets and for dijet events with one forward and one central jet in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-11-002/index.html), [JHEP 06 (2012) 036](https://doi.org/10.1007/JHEP06%282012%29036) (2012-06-05), [arXiv:1202.0704](https://arxiv.org/abs/1202.0704) (2012-02-06).
* 118 $−$ “Suppression of non-prompt J$ψ$, prompt J$ψ$, and $Υ\left(1S\right)$ in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-006/index.html), [JHEP 05 (2012) 063](https://doi.org/10.1007/JHEP05%282012%29063) (2012-05-14), [arXiv:1201.5069](https://arxiv.org/abs/1201.5069) (2012-01-26).
* 117 $−$ “Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-006/index.html), [EPJC 72 (2012) 2012](https://doi.org/10.1140/epjc/s10052-012-2012-3) (2012-05-30), [arXiv:1201.3158](https://arxiv.org/abs/1201.3158) (2012-01-16).
* 116 $−$ “Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-002/index.html), [PLB 710 (2012) 256-277](https://doi.org/10.1016/j.physletb.2012.02.077) (2013-07-16), [arXiv:1201.3093](https://arxiv.org/abs/1201.3093) (2012-01-15).
* 115 $−$ “Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-014/index.html), [PLB 709 (2012) 28-49](https://doi.org/10.1016/j.physletb.2012.01.078) (2013-07-16), [arXiv:1112.5100](https://arxiv.org/abs/1112.5100) (2011-12-21).
* 114 $−$ “Search for signatures of extra dimensions in the diphoton mass spectrum at the Large Hadron Collider"
[CMS-EXO-11-038](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-038/index.html), [PRL 108 (2012) 111801](https://doi.org/10.1103/PhysRevLett.108.111801) (2012-03-12), [arXiv:1112.0688](https://arxiv.org/abs/1112.0688) (2011-12-06).
* 113 $−$ “Exclusive $γγ\rightarrow μ^{+}μ^{−}$ production in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-005/index.html), [JHEP 01 (2012) 052](https://doi.org/10.1007/JHEP01%282012%29052) (2012-01-11), [arXiv:1111.5536](https://arxiv.org/abs/1111.5536) (2011-11-24).
* 112 $−$ “J/$ψ$ and $ψ\left(2S\right)$ production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-014/index.html), [JHEP 02 (2012) 011](https://doi.org/10.1007/JHEP02%282012%29011) (2012-02-07), [arXiv:1111.1557](https://arxiv.org/abs/1111.1557) (2011-11-08).
* 111 $−$ “Measurement of the Production Cross Section for Pairs of Isolated Photons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-035](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-035/index.html), [JHEP 01 (2012) 133](https://doi.org/10.1007/JHEP01%282012%29133) (2012-01-25), [arXiv:1110.6461](https://arxiv.org/abs/1110.6461) (2011-11-01).
* 110 $−$ “Measurement of the Rapidity and Transverse Momentum Distributions of Z Bosons in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-010/index.html), [PRD 85 (2012) 032002](https://doi.org/10.1103/PhysRevD.85.032002) (2012-02-07), [arXiv:1110.4973](https://arxiv.org/abs/1110.4973) (2011-10-25).
* 109 $−$ “Jet Production Rates in Association with W and Z Bosons in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-012/index.html), [JHEP 01 (2012) 010](https://doi.org/10.1007/JHEP01%282012%29010) (2012-01-03), [arXiv:1110.3226](https://arxiv.org/abs/1110.3226) (2011-10-17).
* 108 $−$ “Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC"
[CMS-EWK-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-11-003/index.html), [PRD 84 (2011) 112002](https://doi.org/10.1103/PhysRevD.84.112002) (2011-12-08), [arXiv:1110.2682](https://arxiv.org/abs/1110.2682) (2011-10-13).
* 107 $−$ “Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s}$ = 0.9 and 7 TeV"
[CMS-FWD-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-011/index.html), [JHEP 11 (2011) 148](https://doi.org/10.1007/JHEP11%282011%29148) (2011-11-29), [arXiv:1110.0211](https://arxiv.org/abs/1110.0211) (2011-10-04).
* 106 $−$ “Forward Energy Flow, Central Charged-Particle Multiplicities, and Pseudorapidity Gaps in W and Z Boson Events from pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-FWD-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/FWD-10-008/index.html), [EPJC 72 (2012) 1839](https://doi.org/10.1140/epjc/s10052-011-1839-3) (2012-01-20), [arXiv:1110.0181](https://arxiv.org/abs/1110.0181) (2011-10-04).
* 105 $−$ “Performance of $τ$ lepton reconstruction and identification in CMS"
[CMS-TAU-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TAU-11-001/index.html), [JINST 7 (2012) P01001](https://doi.org/10.1088/1748-0221/7/01/P01001) (2012-01-03), [arXiv:1109.6034](https://arxiv.org/abs/1109.6034) (2011-09-29).
* 104 $−$ “Search for a Vectorlike Quark with Charge 2/3 in t + Z Events from pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-005/index.html), [PRL 107 (2011) 271802](https://doi.org/10.1103/PhysRevLett.107.271802) (2011-12-29), [arXiv:1109.4985](https://arxiv.org/abs/1109.4985) (2011-09-26).
* 103 $−$ “Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy"
[CMS-SUS-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-003/index.html), [PRL 107 (2011) 221804](https://doi.org/10.1103/PhysRevLett.107.221804) (2011-11-21), [arXiv:1109.2352](https://arxiv.org/abs/1109.2352) (2011-09-13).
* 102 $−$ “Measurement of the $t‾$ Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification"
[CMS-TOP-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-003/index.html), [PRD 84 (2011) 092004](https://doi.org/10.1103/PhysRevD.84.092004) (2011-11-14), [arXiv:1108.3773](https://arxiv.org/abs/1108.3773) (2011-08-19).
* 101 $−$ “Measurement of the Differential Cross Section for Isolated Prompt Photon Production in pp Collisions at 7 TeV"
[CMS-QCD-10-037](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-037/index.html), [PRD 84 (2011) 052011](https://doi.org/10.1103/PhysRevD.84.052011) (2011-09-29), [arXiv:1108.2044](https://arxiv.org/abs/1108.2044) (2011-08-11).
* 100 $−$ “Measurement of the Drell-Yan Cross Section in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-007/index.html), [JHEP 10 (2011) 007](https://doi.org/10.1007/JHEP10%282011%29007) (2011-10-04), [arXiv:1108.0566](https://arxiv.org/abs/1108.0566) (2011-08-03).
* 99 $−$ “Search for $B\_{s}^{0}\rightarrow μ^{+}μ^{−}$ and $B^{0}\rightarrow μ^{+}μ^{−}$ decays in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-11-002/index.html), [PRL 107 (2011) 191802](https://doi.org/10.1103/PhysRevLett.107.191802) (2011-11-01), [arXiv:1107.5834](https://arxiv.org/abs/1107.5834) (2011-08-01).
* 98 $−$ “Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-001/index.html), [JHEP 08 (2011) 141](https://doi.org/10.1007/JHEP08%282011%29141) (2011-08-30), [arXiv:1107.4800](https://arxiv.org/abs/1107.4800) (2011-07-24).
* 97 $−$ “Search for Resonances in the Dijet Mass Spectrum from 7 TeV pp Collisions at CMS"
[CMS-EXO-11-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-015/index.html), [PLB 704 (2011) 123-142](https://doi.org/10.1016/j.physletb.2011.09.015) (2013-07-16), [arXiv:1107.4771](https://arxiv.org/abs/1107.4771) (2011-07-26).
* 96 $−$ “Measurement of the Inclusive W and Z Production Cross Sections in pp Collisions at $\sqrt{s}$ = 7 TeV with the CMS experiment"
[CMS-EWK-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-005/index.html), [JHEP 10 (2011) 132](https://doi.org/10.1007/JHEP10%282011%29132) (2011-10-27), [arXiv:1107.4789](https://arxiv.org/abs/1107.4789) (2011-07-26).
* 95 $−$ “Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS"
[CMS-JME-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-10-011/index.html), [JINST 6 (2011) P11002](https://doi.org/10.1088/1748-0221/6/11/P11002) (2011-11-08), [arXiv:1107.4277](https://arxiv.org/abs/1107.4277) (2011-07-22).
* 94 $−$ “Search for Three-Jet Resonances in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-001/index.html), [PRL 107 (2011) 101801](https://doi.org/10.1103/PhysRevLett.107.101801) (2011-08-29), [arXiv:1107.3084](https://arxiv.org/abs/1107.3084) (2011-07-18).
* 93 $−$ “Search for supersymmetry in pp collisions at $\sqrt{s}$ = 7 TeV in events with a single lepton, jets, and missing transverse momentum"
[CMS-SUS-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-006/index.html), [JHEP 08 (2011) 156](https://doi.org/10.1007/JHEP08%282011%29156) (2011-08-31), [arXiv:1107.1870](https://arxiv.org/abs/1107.1870) (2011-07-12).
* 92 $−$ “A search for excited leptons in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-016/index.html), [PLB 704 (2011) 143-162](https://doi.org/10.1016/j.physletb.2011.09.021) (2013-07-16), [arXiv:1107.1773](https://arxiv.org/abs/1107.1773) (2011-07-12).
* 91 $−$ “Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-10-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-009/index.html), [PRD 85 (2012) 012004](https://doi.org/10.1103/PhysRevD.85.012004) (2012-01-11), [arXiv:1107.1279](https://arxiv.org/abs/1107.1279) (2011-07-08).
* 90 $−$ “Measurement of the Underlying Event Activity at the LHC with $\sqrt{s}$ = 7 TeV and Comparison with $\sqrt{s}$ = 0.9 TeV"
[CMS-QCD-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-010/index.html), [JHEP 09 (2011) 109](https://doi.org/10.1007/JHEP09%282011%29109) (2011-09-23), [arXiv:1107.0330](https://arxiv.org/abs/1107.0330) (2011-07-05).
* 89 $−$ “Missing transverse energy performance of the CMS detector"
[CMS-JME-10-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/JME-10-009/index.html), [JINST 6 (2011) P09001](https://doi.org/10.1088/1748-0221/6/09/P09001) (2011-09-09), [arXiv:1106.5048](https://arxiv.org/abs/1106.5048) (2011-06-27).
* 88 $−$ “Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-11-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-003/index.html), [PRL 107 (2011) 201804](https://doi.org/10.1103/PhysRevLett.107.201804) (2011-11-10), [arXiv:1106.4775](https://arxiv.org/abs/1106.4775) (2011-06-24).
* 87 $−$ “Search for New Physics with Jets and Missing Transverse Momentum in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-005/index.html), [JHEP 08 (2011) 155](https://doi.org/10.1007/JHEP08%282011%29155) (2011-08-31), [arXiv:1106.4503](https://arxiv.org/abs/1106.4503) (2011-06-23).
* 86 $−$ “Measurement of the $B\_{s}^{0}$ Production Cross Section with $B\_{s}^{0}\rightarrow J/ψϕ$ Decays in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-013/index.html), [PRD 84 (2011) 052008](https://doi.org/10.1103/PhysRevD.84.052008) (2011-09-20), [arXiv:1106.4048](https://arxiv.org/abs/1106.4048) (2011-06-22).
* 85 $−$ “Search for Supersymmetry in Events with b Jets and Missing Transverse Momentum at the LHC"
[CMS-SUS-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-011/index.html), [JHEP 07 (2011) 113](https://doi.org/10.1007/JHEP07%282011%29113) (2011-07-26), [arXiv:1106.3272](https://arxiv.org/abs/1106.3272) (2011-06-17).
* 84 $−$ “Measurement of the t-channel single top quark production cross section in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-008/index.html), [PRL 107 (2011) 091802](https://doi.org/10.1103/PhysRevLett.107.091802) (2011-08-25), [arXiv:1106.3052](https://arxiv.org/abs/1106.3052) (2011-06-16).
* 83 $−$ “Search for Light Resonances Decaying into Pairs of Muons as a Signal of New Physics"
[CMS-EXO-11-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-013/index.html), [JHEP 07 (2011) 098](https://doi.org/10.1007/JHEP07%282011%29098) (2011-07-21), [arXiv:1106.2375](https://arxiv.org/abs/1106.2375) (2011-06-14).
* 82 $−$ “Search for Same-Sign Top-Quark Pair Production at $\sqrt{s}$ = 7 TeV and Limits on Flavour Changing Neutral Currents in the Top Sector"
[CMS-EXO-11-065](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-11-065/index.html), [JHEP 08 (2011) 005](https://doi.org/10.1007/JHEP08%282011%29005) (2011-08-10), [arXiv:1106.2142](https://arxiv.org/abs/1106.2142) (2011-06-13).
* 81 $−$ “Search for Physics Beyond the Standard Model Using Multilepton Signatures in pp Collisions at $\sqrt{s}$ =7 TeV"
[CMS-SUS-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-008/index.html), [PLB 704 (2011) 411-433](https://doi.org/10.1016/j.physletb.2011.09.047) (2013-07-16), [arXiv:1106.0933](https://arxiv.org/abs/1106.0933) (2011-06-07).
* 80 $−$ “Measurement of the $t‾$ Production Cross Section in pp Collisions at $\sqrt{s}$ = 7 TeV using the Kinematic Properties of Events with Leptons and Jets"
[CMS-TOP-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-002/index.html), [EPJC 71 (2011) 1721](https://doi.org/10.1140/epjc/s10052-011-1721-3) (2011-09-20), [arXiv:1106.0902](https://arxiv.org/abs/1106.0902) (2011-06-07).
* 79 $−$ “Measurement of the Ratio of the 3-jet to 2-jet Cross Sections in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-012/index.html), [PLB 702 (2011) 336-354](https://doi.org/10.1016/j.physletb.2011.07.067) (2013-07-16), [arXiv:1106.0647](https://arxiv.org/abs/1106.0647) (2011-06-06).
* 78 $−$ “Measurement of the Inclusive Jet Cross Section in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-011/index.html), [PRL 107 (2011) 132001](https://doi.org/10.1103/PhysRevLett.107.132001) (2011-09-19), [arXiv:1106.0208](https://arxiv.org/abs/1106.0208) (2011-06-01).
* 77 $−$ “Measurement of the $t‾$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-11-002/index.html), [JHEP 07 (2011) 049](https://doi.org/10.1007/JHEP07%282011%29049) (2011-07-11), [arXiv:1105.5661](https://arxiv.org/abs/1105.5661) (2011-05-31).
* 76 $−$ “Search for First Generation Scalar Leptoquarks in the $eνjj$ Channel in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-006/index.html), [PLB 703 (2011) 246-266](https://doi.org/10.1016/j.physletb.2011.07.089) (2013-07-16), [arXiv:1105.5237](https://arxiv.org/abs/1105.5237) (2011-05-27).
* 75 $−$ “Indications of Suppression of Excited $Υ$ States in Pb-Pb Collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-007/index.html), [PRL 107 (2011) 052302](https://doi.org/10.1103/PhysRevLett.107.052302) (2011-07-28), [arXiv:1105.4894](https://arxiv.org/abs/1105.4894) (2011-05-26).
* 74 $−$ “Measurement of W$γ$ and Z$γ$ production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-008/index.html), [PLB 701 (2011) 535-555](https://doi.org/10.1016/j.physletb.2011.06.034) (2013-07-16), [arXiv:1105.2758](https://arxiv.org/abs/1105.2758) (2011-05-16).
* 73 $−$ “Long-range and short-range dihadron angular correlations in central PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-11-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-11-001/index.html), [JHEP 07 (2011) 076](https://doi.org/10.1007/JHEP07%282011%29076) (2011-07-18), [arXiv:1105.2438](https://arxiv.org/abs/1105.2438) (2011-05-13).
* 72 $−$ “Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-11-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-11-002/index.html), [JHEP 06 (2011) 093](https://doi.org/10.1007/JHEP06%282011%29093) (2011-06-21), [arXiv:1105.3152](https://arxiv.org/abs/1105.3152) (2011-05-17).
* 71 $−$ “Measurement of the Polarization of W Bosons with Large Transverse Momenta in W+Jets Events at the LHC"
[CMS-EWK-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-014/index.html), [PRL 107 (2011) 021802](https://doi.org/10.1103/PhysRevLett.107.021802) (2011-07-06), [arXiv:1104.3829](https://arxiv.org/abs/1104.3829) (2011-04-20).
* 70 $−$ “Charged particle transverse momentum spectra in pp collisions at $\sqrt{s}$ = 0.9 and 7 TeV"
[CMS-QCD-10-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-008/index.html), [JHEP 08 (2011) 086](https://doi.org/10.1007/JHEP08%282011%29086) (2011-08-19), [arXiv:1104.3547](https://arxiv.org/abs/1104.3547) (2011-04-19).
* 69 $−$ “Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC"
[CMS-SUS-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-004/index.html), [JHEP 06 (2011) 077](https://doi.org/10.1007/JHEP06%282011%29077) (2011-06-17), [arXiv:1104.3168](https://arxiv.org/abs/1104.3168) (2011-04-19).
* 68 $−$ “Measurement of the B$​^{0}$ Production Cross Section in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-005/index.html), [PRL 106 (2011) 252001](https://doi.org/10.1103/PhysRevLett.106.252001) (2011-06-20), [arXiv:1104.2892](https://arxiv.org/abs/1104.2892) (2011-04-15).
* 67 $−$ “Measurement of the differential dijet production cross section in proton-proton collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-025/index.html), [PLB 700 (2011) 187-206](https://doi.org/10.1016/j.physletb.2011.05.027) (2013-07-16), [arXiv:1104.1693](https://arxiv.org/abs/1104.1693) (2011-04-12).
* 66 $−$ “Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-HIG-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-10-002/index.html), [PRL 106 (2011) 231801](https://doi.org/10.1103/PhysRevLett.106.231801) (2011-06-08), [arXiv:1104.1619](https://arxiv.org/abs/1104.1619) (2011-04-11).
* 65 $−$ “Measurement of the Inclusive Z Cross Section via Decays to Tau Pairs in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-013/index.html), [JHEP 08 (2011) 117](https://doi.org/10.1007/JHEP08%282011%29117) (2011-08-25), [arXiv:1104.1617](https://arxiv.org/abs/1104.1617) (2011-04-11).
* 64 $−$ “Search for Large Extra Dimensions in the Diphoton Final State at the Large Hadron Collider"
[CMS-EXO-10-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-026/index.html), [JHEP 05 (2011) 085](https://doi.org/10.1007/JHEP05%282011%29085) (2011-05-17), [arXiv:1103.4279](https://arxiv.org/abs/1103.4279) (2011-03-23).
* 63 $−$ “Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-006/index.html), [JHEP 04 (2011) 050](https://doi.org/10.1007/JHEP04%282011%29050) (2011-04-12), [arXiv:1103.3470](https://arxiv.org/abs/1103.3470) (2011-03-18).
* 62 $−$ “Search for Physics Beyond the Standard Model in Opposite-sign Dilepton Events in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-SUS-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-007/index.html), [JHEP 06 (2011) 026](https://doi.org/10.1007/JHEP06%282011%29026) (2011-06-07), [arXiv:1103.1348](https://arxiv.org/abs/1103.1348) (2011-03-08).
* 61 $−$ “Search for Resonances in the Dilepton Mass Distribution in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-013/index.html), [JHEP 05 (2011) 093](https://doi.org/10.1007/JHEP05%282011%29093) (2011-05-19), [arXiv:1103.0981](https://arxiv.org/abs/1103.0981) (2011-03-07).
* 60 $−$ “Search for Supersymmetry in pp Collisions at $\sqrt{s}$ = 7 TeV in Events with Two Photons and Missing Transverse Energy"
[CMS-SUS-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-002/index.html), [PRL 106 (2011) 211802](https://doi.org/10.1103/PhysRevLett.106.211802) (2011-05-24), [arXiv:1103.0953](https://arxiv.org/abs/1103.0953) (2011-03-07).
* 59 $−$ “Search for a W’ boson decaying to a muon and a neutrino in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-015/index.html), [PLB 701 (2011) 160-179](https://doi.org/10.1016/j.physletb.2011.05.048) (2013-07-16), [arXiv:1103.0030](https://arxiv.org/abs/1103.0030) (2011-03-02).
* 58 $−$ “Study of Z boson production in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-003/index.html), [PRL 106 (2011) 212301](https://doi.org/10.1103/PhysRevLett.106.212301) (2011-05-24), [arXiv:1102.5435](https://arxiv.org/abs/1102.5435) (2011-03-01).
* 57 $−$ “Measurement of $W^{+}W^{−}$ Production and Search for the Higgs Boson in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-009/index.html), [PLB 699 (2011) 25-47](https://doi.org/10.1016/j.physletb.2011.03.056) (2013-07-16), [arXiv:1102.5429](https://arxiv.org/abs/1102.5429) (2011-03-01).
* 56 $−$ “Search for a Heavy Bottom-like Quark in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-018/index.html), [PLB 701 (2011) 204-223](https://doi.org/10.1016/j.physletb.2011.05.074) (2013-07-16), [arXiv:1102.4746](https://arxiv.org/abs/1102.4746) (2011-02-24).
* 55 $−$ “Strange Particle Production in pp collisions at $\sqrt{s}$ = 0.9 and 7 TeV"
[CMS-QCD-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-007/index.html), [JHEP 05 (2011) 064](https://doi.org/10.1007/JHEP05%282011%29064) (2011-05-12), [arXiv:1102.4282](https://arxiv.org/abs/1102.4282) (2011-02-21).
* 54 $−$ “Measurement of $B\overline{B}$ angular correlations based on secondary vertex reconstruction at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-010/index.html), [JHEP 03 (2011) 136](https://doi.org/10.1007/JHEP03%282011%29136) (2011-03-28), [arXiv:1102.3194](https://arxiv.org/abs/1102.3194) (2011-02-15).
* 53 $−$ “Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-016/index.html), [PRL 106 (2011) 201804](https://doi.org/10.1103/PhysRevLett.106.201804) (2011-05-18), [arXiv:1102.2020](https://arxiv.org/abs/1102.2020) (2011-02-09).
* 52 $−$ “Observation and studies of jet quenching in PbPb collisions at $\sqrt{s\_{NN}}$ = 2.76 TeV"
[CMS-HIN-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-10-004/index.html), [PRC 84 (2011) 024906](https://doi.org/10.1103/PhysRevC.84.024906) (2011-08-12), [arXiv:1102.1957](https://arxiv.org/abs/1102.1957) (2011-02-10).
* 51 $−$ “First Measurement of Hadronic Event Shapes in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-013/index.html), [PLB 699 (2011) 48-67](https://doi.org/10.1016/j.physletb.2011.03.060) (2013-07-16), [arXiv:1102.0068](https://arxiv.org/abs/1102.0068) (2011-02-01).
* 50 $−$ “Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-026](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-026/index.html), [PRL 106 (2011) 122003](https://doi.org/10.1103/PhysRevLett.106.122003) (2011-03-22), [arXiv:1101.5029](https://arxiv.org/abs/1101.5029) (2011-01-26).
* 49 $−$ “Measurement of Bose–Einstein Correlations in pp Collisions at $\sqrt{s}$ = 0.9 and 7 TeV"
[CMS-QCD-10-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-023/index.html), [JHEP 05 (2011) 029](https://doi.org/10.1007/JHEP05%282011%29029) (2011-05-04), [arXiv:1101.3518](https://arxiv.org/abs/1101.3518) (2011-01-18).
* 48 $−$ “Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-007/index.html), [JHEP 03 (2011) 090](https://doi.org/10.1007/JHEP03%282011%29090) (2011-03-18), [arXiv:1101.3512](https://arxiv.org/abs/1101.3512) (2011-01-18).
* 47 $−$ “Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-011/index.html), [JHEP 03 (2011) 024](https://doi.org/10.1007/JHEP03%282011%29024) (2011-03-04), [arXiv:1101.1645](https://arxiv.org/abs/1101.1645) (2011-01-09).
* 46 $−$ “Search for Supersymmetry in pp Collisions at 7 TeV in Events with Jets and Missing Transverse Energy"
[CMS-SUS-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/SUS-10-003/index.html), [PLB 698 (2011) 196-218](https://doi.org/10.1016/j.physletb.2011.03.021) (2011-04-11), [arXiv:1101.1628](https://arxiv.org/abs/1101.1628) (2011-01-09).
* 45 $−$ “Measurement of the $B^{+}$ Production Cross Section in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-004/index.html), [PRL 106 (2011) 112001](https://doi.org/10.1103/PhysRevLett.106.112001) (2011-03-17), [arXiv:1101.0131](https://arxiv.org/abs/1101.0131) (2011-01-04).
* 44 $−$ “Search for a heavy gauge boson W’ in the final state with an electron and large missing transverse energy in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-014/index.html), [PLB 698 (2011) 21-39](https://doi.org/10.1016/j.physletb.2011.02.048) (2011-03-28), [arXiv:1012.5945](https://arxiv.org/abs/1012.5945) (2010-12-29).
* 43 $−$ “Upsilon production cross section in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-003/index.html), [PRD 83 (2011) 112004](https://doi.org/10.1103/PhysRevD.83.112004) (2011-06-15), [arXiv:1012.5545](https://arxiv.org/abs/1012.5545) (2010-12-27).
* 42 $−$ “Search for Pair Production of Second-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-007/index.html), [PRL 106 (2011) 201803](https://doi.org/10.1103/PhysRevLett.106.201803) (2011-05-17), [arXiv:1012.4033](https://arxiv.org/abs/1012.4033) (2010-12-21).
* 41 $−$ “Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at $\sqrt{s}$= 7 TeV"
[CMS-EXO-10-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-005/index.html), [PRL 106 (2011) 201802](https://doi.org/10.1103/PhysRevLett.106.201802) (2011-05-17), [arXiv:1012.4031](https://arxiv.org/abs/1012.4031) (2010-12-21).
* 40 $−$ “Search for Microscopic Black Hole Signatures at the Large Hadron Collider"
[CMS-EXO-10-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-017/index.html), [PLB 697 (2011) 434-453](https://doi.org/10.1016/j.physletb.2011.02.032) (2013-07-16), [arXiv:1012.3375](https://arxiv.org/abs/1012.3375) (2010-12-16).
* 39 $−$ “Measurements of Inclusive W and Z Cross Sections in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EWK-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EWK-10-002/index.html), [JHEP 01 (2011) 080](https://doi.org/10.1007/JHEP01%282011%29080) (2011-01-19), [arXiv:1012.2466](https://arxiv.org/abs/1012.2466) (2010-12-12).
* 38 $−$ “Measurement of the Isolated Prompt Photon Production Cross Section in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-019/index.html), [PRL 106 (2011) 082001](https://doi.org/10.1103/PhysRevLett.106.082001) (2011-02-23), [arXiv:1012.0799](https://arxiv.org/abs/1012.0799) (2010-12-03).
* 37 $−$ “Search for Stopped Gluinos in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-003/index.html), [PRL 106 (2011) 011801](https://doi.org/10.1103/PhysRevLett.106.011801) (2011-01-07), [arXiv:1011.5861](https://arxiv.org/abs/1011.5861) (2010-11-26).
* 36 $−$ “Charged particle multiplicities in pp interactions at $\sqrt{s}$ = 0.9, 2.36, and 7 TeV"
[CMS-QCD-10-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-004/index.html), [JHEP 01 (2011) 079](https://doi.org/10.1007/JHEP01%282011%29079) (2011-01-19), [arXiv:1011.5531](https://arxiv.org/abs/1011.5531) (2010-11-25).
* 35 $−$ “Prompt and non-prompt J/$ψ$ production in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-BPH-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/BPH-10-002/index.html), [EPJC 71 (2011) 1575](https://doi.org/10.1140/epjc/s10052-011-1575-8) (2011-03-22), [arXiv:1011.4193](https://arxiv.org/abs/1011.4193) (2010-11-18).
* 34 $−$ “First Measurement of the Cross Section for Top-Quark Pair Production in Proton-Proton Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-TOP-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-10-001/index.html), [PLB 695 (2011) 424-443](https://doi.org/10.1016/j.physletb.2010.11.058) (2011-01-17), [arXiv:1010.5994](https://arxiv.org/abs/1010.5994) (2010-10-28).
* 33 $−$ “Search for Quark Compositeness with the Dijet Centrality Ratio in pp Collisions at $\sqrt{s}$ = 7 TeV"
[CMS-EXO-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-002/index.html), [PRL 105 (2010) 262001](https://doi.org/10.1103/PhysRevLett.105.262001) (2010-12-20), [arXiv:1010.4439](https://arxiv.org/abs/1010.4439) (2010-10-21).
* 32 $−$ “Search for Dijet Resonances in 7 TeV pp Collisions at CMS"
[CMS-EXO-10-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-10-010/index.html), [PRL 105 (2010) 211801](https://doi.org/10.1103/PhysRevLett.105.211801) (2010-11-17), [arXiv:1010.0203](https://arxiv.org/abs/1010.0203) (2010-10-04).
* 31 $−$ “Observation of Long-Range, Near-Side Angular Correlations in Proton-Proton Collisions at the LHC"
[CMS-QCD-10-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-002/index.html), [JHEP 09 (2010) 091](https://doi.org/10.1007/JHEP09%282010%29091) (2010-09-27), [arXiv:1009.4122](https://arxiv.org/abs/1009.4122) (2010-09-22).
* 30 $−$ “CMS Tracking Performance Results from Early LHC Operation"
[CMS-TRK-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/TRK-10-001/index.html), [EPJC 70 (2010) 1165](https://doi.org/10.1140/epjc/s10052-010-1491-3) (2010-11-24), [arXiv:1007.1988](https://arxiv.org/abs/1007.1988) (2010-07-14).
* 29 $−$ “First Measurement of the Underlying Event Activity at the LHC with $\sqrt{s}$ = 0.9 TeV"
[CMS-QCD-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-001/index.html), [EPJC 70 (2010) 555-572](https://doi.org/10.1140/epjc/s10052-010-1453-9) (2010-11-06), [arXiv:1006.2083](https://arxiv.org/abs/1006.2083) (2010-06-11).
* 28 $−$ “Measurement of the charge ratio of atmospheric muons with the CMS detector"
[CMS-MUO-10-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-10-001/index.html), [PLB 692 (2010) 83-104](https://doi.org/10.1016/j.physletb.2010.07.033) (2010-08-23), [arXiv:1005.5332](https://arxiv.org/abs/1005.5332) (2010-05-31).
* 27 $−$ “Transverse-momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}$ = 7 TeV"
[CMS-QCD-10-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-006/index.html), [PRL 105 (2010) 022002](https://doi.org/10.1103/PhysRevLett.105.022002) (2010-07-06), [arXiv:1005.3299](https://arxiv.org/abs/1005.3299) (2010-05-19).
* 26 $−$ “First Measurement of Bose-Einstein Correlations in proton-proton Collisions at $\sqrt{s}$ =0.9 and 2.36 TeV at the LHC"
[CMS-QCD-10-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-10-003/index.html), [PRL 105 (2010) 032001](https://doi.org/10.1103/PhysRevLett.105.032001) (2010-07-13), [arXiv:1005.3294](https://arxiv.org/abs/1005.3294) (2010-05-19).
* 25 $−$ “Transverse momentum and pseudorapidity distributions of charged hadrons in pp collisions at $\sqrt{s}$ = 0.9 and 2.36 TeV"
[CMS-QCD-09-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/QCD-09-010/index.html), [JHEP 02 (2010) 041](https://doi.org/10.1007/JHEP02%282010%29041) (2010-02-12), [arXiv:1002.0621](https://arxiv.org/abs/1002.0621) (2010-02-04).
* 24 $−$ “Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons"
[CMS-CFT-09-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-001/index.html), [JINST 5 (2010) T03007](https://doi.org/10.1088/1748-0221/5/03/T03007) (2010-03-19), [arXiv:0911.5434](https://arxiv.org/abs/0911.5434) (2009-11-28).
* 23 $−$ “Measurement of the Muon Stopping Power in Lead Tungstate"
[CMS-CFT-09-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-005/index.html), [JINST 5 (2010) P03007](https://doi.org/10.1088/1748-0221/5/03/P03007) (2010-03-19), [arXiv:0911.5397](https://arxiv.org/abs/0911.5397) (2009-12-01).
* 22 $−$ “Performance of the CMS Level-1 Trigger during Commissioning with Cosmic Ray Muons and LHC beams"
[CMS-CFT-09-013](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-013/index.html), [JINST 5 (2010) T03002](https://doi.org/10.1088/1748-0221/5/03/T03002) (2010-03-19), [arXiv:0911.5422](https://arxiv.org/abs/0911.5422) (2009-12-01).
* 21 $−$ “Performance of CMS Muon Reconstruction in Cosmic-Ray Events"
[CMS-CFT-09-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-014/index.html), [JINST 5 (2010) T03022](https://doi.org/10.1088/1748-0221/5/03/T03022) (2010-03-19), [arXiv:0911.4994](https://arxiv.org/abs/0911.4994) (2009-11-30).
* 20 $−$ “Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons"
[CMS-CFT-09-002](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-002/index.html), [JINST 5 (2010) T03008](https://doi.org/10.1088/1748-0221/5/03/T03008) (2010-03-19), [arXiv:0911.4996](https://arxiv.org/abs/0911.4996) (2009-11-30).
* 19 $−$ “Performance of the CMS Cathode Strip Chambers with Cosmic Rays"
[CMS-CFT-09-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-011/index.html), [JINST 5 (2010) T03018](https://doi.org/10.1088/1748-0221/5/03/T03018) (2010-03-19), [arXiv:0911.4992](https://arxiv.org/abs/0911.4992) (2009-11-30).
* 18 $−$ “Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data"
[CMS-CFT-09-009](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-009/index.html), [JINST 5 (2010) T03012](https://doi.org/10.1088/1748-0221/5/03/T03012) (2010-03-19), [arXiv:0911.4991](https://arxiv.org/abs/0911.4991) (2009-11-30).
* 17 $−$ “CMS Data Processing Workflows during an Extended Cosmic Ray Run"
[CMS-CFT-09-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-007/index.html), [JINST 5 (2010) T03006](https://doi.org/10.1088/1748-0221/5/03/T03006) (2010-03-19), [arXiv:0911.4842](https://arxiv.org/abs/0911.4842) (2009-11-26).
* 16 $−$ “Performance of the CMS Drift Tube Chambers with Cosmic Rays"
[CMS-CFT-09-012](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-012/index.html), [JINST 5 (2010) T03015](https://doi.org/10.1088/1748-0221/5/03/T03015) (2010-03-19), [arXiv:0911.4855](https://arxiv.org/abs/0911.4855) (2009-11-26).
* 15 $−$ “Calibration of the CMS Drift Tube Chambers and Measurement of the Drift Velocity with Cosmic Rays"
[CMS-CFT-09-023](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-023/index.html), [JINST 5 (2010) T03016](https://doi.org/10.1088/1748-0221/5/03/T03016) (2010-03-19), [arXiv:0911.4895](https://arxiv.org/abs/0911.4895) (2009-11-26).
* 14 $−$ “Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla"
[CMS-CFT-09-008](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-008/index.html), [JINST 5 (2010) T03001](https://doi.org/10.1088/1748-0221/5/03/T03001) (2010-03-19), [arXiv:0911.4845](https://arxiv.org/abs/0911.4845) (2009-11-26).
* 13 $−$ “Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter"
[CMS-CFT-09-019](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-019/index.html), [JINST 5 (2010) T03014](https://doi.org/10.1088/1748-0221/5/03/T03014) (2010-03-19), [arXiv:0911.4881](https://arxiv.org/abs/0911.4881) (2009-11-26).
* 12 $−$ “Commissioning of the CMS High-Level Trigger with Cosmic Rays"
[CMS-CFT-09-020](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-020/index.html), [JINST 5 (2010) T03005](https://doi.org/10.1088/1748-0221/5/03/T03005) (2010-03-19), [arXiv:0911.4889](https://arxiv.org/abs/0911.4889) (2009-11-26).
* 11 $−$ “Aligning the CMS Muon Chambers with the Muon Alignment System during an Extended Cosmic Ray Run"
[CMS-CFT-09-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-017/index.html), [JINST 5 (2010) T03019](https://doi.org/10.1088/1748-0221/5/03/T03019) (2010-03-19), [arXiv:0911.4770](https://arxiv.org/abs/0911.4770) (2009-11-26).
* 10 $−$ “Performance of the CMS drift-tube chamber local trigger with cosmic rays"
[CMS-CFT-09-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-022/index.html), [JINST 5 (2010) T03003](https://doi.org/10.1088/1748-0221/5/03/T03003) (2010-03-19), [arXiv:0911.4893](https://arxiv.org/abs/0911.4893) (2009-11-26).
* 9 $−$ “Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays"
[CMS-CFT-09-025](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-025/index.html), [JINST 5 (2010) T03004](https://doi.org/10.1088/1748-0221/5/03/T03004) (2010-03-19), [arXiv:0911.4904](https://arxiv.org/abs/0911.4904) (2009-11-26).
* 8 $−$ “Performance of CMS hadron calorimeter timing and synchronization using test beam, cosmic ray, and LHC beam data"
[CMS-CFT-09-018](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-018/index.html), [JINST 5 (2010) T03013](https://doi.org/10.1088/1748-0221/5/03/T03013) (2010-03-19), [arXiv:0911.4877](https://arxiv.org/abs/0911.4877) (2009-11-26).
* 7 $−$ “Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons"
[CMS-CFT-09-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-016/index.html), [JINST 5 (2010) T03020](https://doi.org/10.1088/1748-0221/5/03/T03020) (2010-03-19), [arXiv:0911.4022](https://arxiv.org/abs/0911.4022) (2009-11-23).
* 6 $−$ “Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays"
[CMS-CFT-09-010](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-010/index.html), [JINST 5 (2010) T03017](https://doi.org/10.1088/1748-0221/5/03/T03017) (2010-03-19), [arXiv:0911.4045](https://arxiv.org/abs/0911.4045) (2009-11-23).
* 5 $−$ “Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter"
[CMS-CFT-09-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-006/index.html), [JINST 5 (2010) T03011](https://doi.org/10.1088/1748-0221/5/03/T03011) (2010-03-19), [arXiv:0911.4044](https://arxiv.org/abs/0911.4044) (2009-11-23).
* 4 $−$ “Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays"
[CMS-CFT-09-015](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-015/index.html), [JINST 5 (2010) T03021](https://doi.org/10.1088/1748-0221/5/03/T03021) (2010-03-19), [arXiv:0910.5530](https://arxiv.org/abs/0910.5530) (2009-10-30).
* 3 $−$ “Performance and Operation of the CMS Electromagnetic Calorimeter"
[CMS-CFT-09-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-004/index.html), [JINST 5 (2010) T03010](https://doi.org/10.1088/1748-0221/5/03/T03010) (2010-03-19), [arXiv:0910.3423](https://arxiv.org/abs/0910.3423) (2009-10-20).
* 2 $−$ “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays"
[CMS-CFT-09-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/CFT-09-003/index.html), [JINST 5 (2010) T03009](https://doi.org/10.1088/1748-0221/5/03/T03009) (2010-03-19), [arXiv:0910.2505](https://arxiv.org/abs/0910.2505) (2009-10-15).
* 1 $−$ “The CMS experiment at the CERN LHC"
[CMS-CMS-00-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CMS-00-001/index.html), [JINST 3 (2008) S08004](https://doi.org/10.1088/1748-0221/3/08/S08004) (2008-08-14).