

CMS Publications

April 26, 2024

- 1306 – “Performance of CMS muon reconstruction from proton-proton to heavy ion collisions”
CMS-MUO-21-001, Submitted to JINST.
- 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, Submitted to EPJC, arXiv: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, Submitted to JHEP, arXiv:2404.08462 (2024-04-12).
- 1303 – “The CMS statistical analysis and combination tool: Combine”
CMS-CAT-23-001, Submitted to CSBS, arXiv: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, Submitted to PRL, arXiv: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, Submitted to JHEP, arXiv:2404.02711 (2024-04-03).
- 1300 – “Search for ZZ and ZH production in the $b\bar{b}b\bar{b}$ final state using proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-22-011, Submitted to EPJC, arXiv: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, Submitted to PLB, arXiv:2403.20201 (2024-03-29).
- 1298 – “Enriching the physics program of the CMS experiment via data scouting and data parking”
CMS-EXO-23-007, To be submitted, arXiv:2403.16134 (2024-03-24).
- 1297 – “Searches for Higgs boson production through decays of heavy resonances”
CMS-B2G-23-002, To be submitted, arXiv:2403.16926 (2024-03-24).
- 1296 – “Performance of the CMS electromagnetic calorimeter in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-EGM-18-002, Submitted to JINST, arXiv:2403.15518 (2024-03-23).
- 1295 – “Observation of the $J/\psi \rightarrow \mu^+\mu^-\mu^+\mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-22-006, Accepted by PRD, arXiv: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, Submitted to JHEP, arXiv:2403.10341 (2024-03-15).
- 1293 – “Search for Higgs boson pair production in the $b\bar{b}W^+W^-$ decay mode in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-005, Submitted to JHEP, arXiv:2403.09430 (2024-03-14).
- 1292 – “Search for soft unclustered energy patterns in proton-proton collisions at 13 TeV”
CMS-EXO-23-002, Submitted to PRL, arXiv: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, Submitted to JHEP, arXiv: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, Submitted to JHEP, arXiv:2403.01556 (2024-03-03).
- 1289 – “Review of top quark mass measurements in CMS”
CMS-TOP-23-003, To be submitted, arXiv: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, Submitted to EPJC, arXiv: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, Submitted to JHEP, arXiv: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, Submitted to PRL, arXiv: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, Submitted to PRD, arXiv:2402.18658 (2024-02-28).
- 1284 – “Observation of the $\Xi_b^- \rightarrow \psi(2S)\Xi^-$ decay and studies of the Ξ_b^{*0} baryon in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-23-002, Submitted to PRD, arXiv: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, Submitted to PRD, arXiv:2402.15804 (2024-02-24).
- 1282 – “Portable acceleration of CMS computing workflows with coprocessors as a service”
CMS-MLG-23-001, Submitted to CSBS, arXiv: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, Accepted by JHEP, arXiv:2402.14491 (2024-02-22).
- 1280 – “Measurement of energy correlators inside jets and determination of the strong coupling $\alpha_S(m_Z)$ ”
CMS-SMP-22-015, Submitted to PRL, arXiv: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, Submitted to PRD, arXiv:2402.13808 (2024-02-21).
- 1278 – “Search for exotic decays of the Higgs boson to a pair of pseudoscalars in the $\mu\mu bb$ and $\tau\tau bb$ final states”
CMS-HIG-22-007, Submitted to EPJC, arXiv: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, Submitted to PRD, arXiv:2402.11098 (2024-02-16).
- 1276 – “Search for fractionally charged particles in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-19-006, Submitted to PRL, arXiv: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, Submitted to JHEP, arXiv: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, Accepted by PRD, arXiv: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, Accepted by PRD, arXiv: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, Accepted by PRD, arXiv:2402.01888 (2024-02-03).
- 1271 – “Observation of the $\Lambda_b^0 \rightarrow J/\psi \Xi^- K^+$ decay”
CMS-BPH-22-002, Submitted to EPJC, arXiv: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, Accepted by PRD, arXiv: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, Submitted to JHEP, arXiv: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, Submitted to ROPP, arXiv:2401.06896 (2024-01-12).
- 1267 – “Test of lepton flavor universality in $B^\pm \rightarrow K^\pm \mu^+ \mu^-$ and $B^\pm \rightarrow K^\pm e^+ e^-$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-22-005, Submitted to ROPP, arXiv: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, Submitted to NP, arXiv: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, Submitted to PRL, arXiv: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, Submitted to EPJC, arXiv: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, Accepted by JHEP, arXiv: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, Submitted to PLB, arXiv: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, JHEP 03 (2024) 105 (2024-03-19), arXiv: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, PRD 109 (2024) 072004 (2024-04-06), arXiv: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 $H \rightarrow b\bar{b}$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-20-001, Accepted by PRD, arXiv: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, Submitted to PRD, arXiv:2312.03199 (2023-12-05).
- 1257 – “Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-21-005, PLB 853 (2024) 138633 (2024-04-17), arXiv: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, JHEP 02 (2024) 106 (2024-02-15), arXiv: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, PLB 850 (2024) 138478 (2024-02-10), arXiv: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, Accepted by PRD, arXiv: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, PLB 852 (2024) 138582 (2024-03-18), arXiv: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, Accepted by JHEP, arXiv:2310.19893 (2023-10-30).
- 1251 – “Search for narrow trijet resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-22-008, Submitted to PRL, arXiv: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, JHEP 03 (2024) 134 (2024-03-21), arXiv: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, Submitted to JHEP, arXiv:2310.11231 (2023-10-11).
- 1248 – “Observation of $WW\gamma$ production and search for $H\gamma$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-22-006, PRL 132 (2024) 121901 (2024-03-19), arXiv: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, JINST 19 (2024) P02031 (2024-02-23), arXiv:2310.03844 (2023-10-05).
- 1246 – “Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”
CMS-HIN-21-001, PLB 850 (2024) 138518 (2024-02-09), arXiv: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, Accepted by PRD, arXiv: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, Submitted to JHEP, arXiv: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, PRD 109 (2024) 072007 (2024-04-17), arXiv: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, JHEP 12 (2023) 070 (2023-12-12), arXiv: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, Accepted by PRL, arXiv:2402.08713 (2024-02-13).
- 1240 – “Inclusive and differential cross section measurements of $t\bar{t}b\bar{b}$ production in the lepton+jets channel at $\sqrt{s} = 13$ TeV”
CMS-TOP-22-009, Accepted by JHEP, arXiv: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, JHEP 01 (2024) 101 (2024-01-19), arXiv:2309.12408 (2023-09-21).
- 1238 – “Development of the CMS detector for the CERN LHC Run 3”
CMS-PRF-21-001, Accepted by JINST, arXiv: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, PRL 132 (2024) 021803 (2024-01-11), arXiv:2309.03501 (2023-09-07).

- 1236 – “Luminosity determination using Z boson production at the CMS experiment”
CMS-LUM-21-001, EPJC 84 (2024) 26 (2024-01-10), arXiv: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, Submitted to JHEP, arXiv: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, PRL 132 (2024) 061801 (2024-02-08), arXiv: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, EPJC 84 (2024) 27 (2024-01-10), arXiv: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, JHEP 01 (2024) 173 (2024-01-30), arXiv: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, JHEP 12 (2023) 068 (2023-12-12), arXiv: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, JHEP 10 (2023) 046 (2023-10-06), arXiv: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, JHEP 01 (2024) 128 (2024-01-23), arXiv: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, Submitted to JHEP, arXiv: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, JHEP 10 (2023) 043 (2023-10-06), arXiv: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, JHEP 11 (2023) 181 (2023-11-24), arXiv: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, PRC 109 (2024) 024914 (2024-02-23), arXiv: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, JINST 18 (2023) P11017 (2023-11-22), arXiv:2306.10355 (2023-06-17).
- 1223 – “Observation of new structure in the J/ψ mass spectrum in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-21-003, PRL 132 (2024) 111901 (2024-03-15), arXiv:2306.07164 (2023-06-12).
- 1222 – “Search for the lepton-flavor violating decay of the Higgs boson and additional Higgs bosons in the $e\mu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-22-002, PRD 108 (2023) 072004 (2023-10-10), arXiv: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, JHEP 10 (2023) 115 (2023-10-19), arXiv: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, PLB 847 (2023) 138290 (2023-10-31), arXiv: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, PRL 132 (2024) 041802 (2024-01-23), arXiv: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, JHEP 12 (2023) 189 (2023-12-28), arXiv: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, JHEP 08 (2023) 040 (2023-08-09), arXiv:2305.07532 (2023-05-12).
- 1216 – “Observation of the rare decay of the η meson to four muons”
CMS-BPH-22-003, PRL 131 (2023) 091903 (2023-09-01), arXiv: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, JHEP 07 (2023) 110 (2023-07-13), arXiv:2304.07174 (2023-04-14).
- 1214 – “Observation of the $\Upsilon(3S)$ meson and suppression of Υ states in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-21-007, Submitted to PRL, arXiv: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, PRL 131 (2023) 262301 (2023-12-28), arXiv: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, JHEP 08 (2023) 204 (2023-08-30), arXiv: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, EPJC 83 (2023) 827 (2023-09-20), arXiv: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, PLB 844 (2023) 138076 (2023-09-10), arXiv: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, EPJC 83 (2023) 933 (2023-10-16), arXiv: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, JHEP 09 (2023) 057 (2023-09-11), arXiv: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, EPJC 83 (2023) 963 (2023-10-25), arXiv: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, JHEP 06 (2023) 060 (2023-06-12), arXiv: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, PRD 108 (2023) 092004 (2023-11-20), arXiv:2301.07630 (2023-01-18).
- 1204 – “ K_S^0 and Λ ($\bar{\Lambda}$) two-particle femtoscopic correlations in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-21-006, Submitted to PLB, arXiv: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, JHEP 09 (2023) 051 (2022-07-11), arXiv:2212.12604 (2022-12-23).
- 1202 – “Measurement of the electroweak production of $W\gamma$ in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-21-011, PRD 108 (2023) 032017 (2023-08-01), arXiv:2212.12592 (2022-12-23).

- 1201 – “Measurement of the $B_s^0 \rightarrow \mu^+ \mu^-$ decay properties and search for the $B^0 \rightarrow \mu^+ \mu^-$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-21-006, PLB 842 (2023) 137955 (2023-05-12), arXiv: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, JHEP 07 (2023) 210 (2023-07-27), arXiv: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, PRL 131 (2023) 121901 (2023-09-19), arXiv: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, PLB 850 (2024) 138389 (2024-02-12), arXiv:2212.01636 (2022-12-03).
- 1197 – “Search for high-mass exclusive $\gamma\gamma \rightarrow WW$ and $\gamma\gamma \rightarrow ZZ$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-21-014, JHEP 07 (2023) 229 (2023-07-31), arXiv: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, PRL 131 (2023) 041801 (2023-07-26), arXiv: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, JHEP 09 (2023) 149 (2023-09-22), arXiv:2211.08476 (2022-11-15).
- 1194 – “Measurement of the differential $t\bar{t}$ 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, EPJC 83 (2023) 560 (2023-07-03), arXiv: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, EPJC 83 (2023) 722 (2023-08-11), arXiv: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, EPJC 83 (2023) 742 (2023-08-22), arXiv: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, PLB 844 (2023) 137849 (2023-09-10), arXiv: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, JHEP 07 (2023) 139 (2023-07-17), arXiv:2210.08325 (2022-10-15).
- 1189 – “Proton reconstruction with the CMS-TOTEM Precision Proton Spectrometer”
CMS-PRO-21-001, JINST 18 (2023) P09009 (2023-09-06), arXiv: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, PLB 843 (2023) 137803 (2023-06-14), arXiv: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, PLB 844 (2023) 137813 (2023-09-10), arXiv: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, JHEP 07 (2023) 020 (2023-07-03), arXiv:2209.07327 (2022-09-15).
- 1185 – “Search for exotic Higgs boson decays $H \rightarrow \mathcal{A}\mathcal{A} \rightarrow 4\gamma$ with events containing two merged diphotons in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-016, PRL 131 (2023) 101801 (2023-09-05), arXiv: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, PRD 108 (2023) 032008 (2023-08-10), arXiv: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, JHEP 07 (2023) 091 (2023-07-12), arXiv: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, PLB 846 (2023) 137713 (2023-09-13), arXiv: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, JHEP 07 (2023) 219 (2023-07-28), arXiv:2208.06485 (2022-08-12).
- 1180 – “Measurement of the $t\bar{t}$ charge asymmetry in events with highly Lorentz-boosted top quarks in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-21-014, PLB 846 (2023) 137703 (2023-09-15), arXiv:2208.02751 (2022-08-04).
- 1179 – “Searches for additional Higgs bosons and for vector leptoquarks in $\tau\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-001, JHEP 07 (2023) 073 (2023-07-10), arXiv:2208.02717 (2022-08-04).
- 1178 – “Search for CP violation in $t\bar{t}H$ and tH production in multilepton channels in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-006, JHEP 07 (2023) 092 (2023-07-12), arXiv: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, JHEP 07 (2023) 148 (2023-07-19), arXiv: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, JHEP 07 (2023) 046 (2023-07-06), arXiv: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, PLB 846 (2023) 137783 (2023-09-17), arXiv:2208.00265 (2022-07-30).
- 1174 – “Measurement of the top quark pole mass using $t\bar{t}$ +jet events in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-21-008, JHEP 07 (2023) 077 (2023-07-10), arXiv: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, PRD 108 (2023) 012011 (2023-07-01), arXiv: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, JHEP 09 (2023) 032 (2023-09-06), arXiv: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, Nature 607 (2022) 60 (2022-07-04), arXiv: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, JHEP 06 (2023) 130 (2023-06-22), arXiv:2206.10657 (2022-06-22).
- 1169 – “Search for Higgs boson pairs decaying to $WWWW$, $WW\tau\tau$, and $\tau\tau\tau\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-21-002, JHEP 07 (2023) 095 (2023-07-12), arXiv: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, JHEP 07 (2023) 161 (2023-07-21), arXiv: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, EPJC 83 (2023) 667 (2023-07-26), arXiv: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, PLB 842 (2023) 137531 (2023-05-19), arXiv: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, PRL 131 (2023) 011803 (2023-07-06), arXiv: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, PLB 842 (2023) 137563 (2023-05-22), arXiv: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, PRL 131 (2023) 151803 (2023-10-12), arXiv: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, PLB 842 (2023) 137534 (2023-05-18), arXiv: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, PRL 131 (2023) 091803 (2023-09-01), arXiv: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, JHEP 07 (2023) 213 (2023-07-27), arXiv: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, PLB 842 (2023) 137460 (2023-05-13), arXiv: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, JHEP 05 (2023) 228 (2023-05-30), arXiv: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, JHEP 07 (2023) 023 (2023-07-04), arXiv:2205.07434 (2022-05-16).
- 1156 – “Search for heavy resonances and quantum black holes in $e\mu$, $e\tau$, and $\mu\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-19-014, JHEP 05 (2023) 227 (2023-05-30), arXiv:2205.06709 (2022-05-13).
- 1155 – “Search for nonresonant pair production of highly energetic Higgs bosons decaying to bottom quarks”
CMS-B2G-22-003, PRL 131 (2023) 041803 (2023-07-25), arXiv: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, PLB 841 (2023) 137495 (2023-04-28), arXiv: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, PRL 131 (2023) 061801 (2023-08-07), arXiv: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 $\tau\tau$ final state”
CMS-HIG-20-007, PRD 108 (2023) 032013 (2023-08-01), arXiv: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, EPJC 83 (2023) 628 (2023-07-17), arXiv:2205.04897 (2022-05-10).
- 1150 – “CMS PYTHIA 8 colour reconnection tunes based on underlying-event data”
CMS-GEN-17-002, EPJC 83 (2023) 571 (2023-07-10), arXiv: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, PRD 108 (2023) 052004 (2023-09-06), arXiv:2205.02872 (2022-05-05).

- 1148 – “Search for CP violation using $t\bar{t}$ events in the lepton+jets channel in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-20-005, JHEP 06 (2023) 081 (2023-06-14), arXiv: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, PRD 108 (2023) 012009 (2023-07-01), arXiv:2205.01835 (2022-05-04).
- 1146 – “Strange hadron collectivity in pPb and PbPb collisions”
CMS-HIN-19-004, JHEP 05 (2023) 007 (2023-05-02), arXiv:2205.00080 (2022-04-29).
- 1145 – “Azimuthal Correlations within Exclusive Dijets with Large Momentum Transfer in Photon-Lead Collisions”
CMS-HIN-18-011, PRL 131 (2023) 051901 (2023-08-01), arXiv: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, EPJC 83 (2023) 571 (2023-07-06), arXiv:2204.13532 (2022-04-28).
- 1143 – “Two-particle azimuthal correlations in γp interactions using pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”
CMS-HIN-18-008, PLB 844 (2023) 137905 (2023-09-10), arXiv: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, JHEP 05 (2023) 233 (2023-05-30), arXiv: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, EPJC 83 (2023) 562 (2023-07-04), arXiv: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, PLB 842 (2023) 137392 (2022-08-27), arXiv: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, PRD 108 (2023) 052002 (2023-09-01), arXiv: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, PLB 835 (2022) 137566 (2022-11-14), arXiv: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, JHEP 09 (2022) 088 (2022-09-13), arXiv: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, JHEP 08 (2022) 063 (2022-08-04), arXiv: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, PLB 835 (2022) 137397 (2022-12-10), arXiv: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, PRL 129 (2022) 081802 (2022-08-18), arXiv:2202.09617 (2022-02-19).
- 1133 – “Inclusive nonresonant multilepton probes of new phenomena at $\sqrt{s} = 13$ TeV”
CMS-EXO-21-002, PRD 105 (2022) 112007 (2022-06-01), arXiv: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, NP 18 (2022) 1329 (2022-10-20), arXiv: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, JHEP 07 (2022) 067 (2022-07-11), arXiv: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, PRD 105 (2022) 092007 (2022-05-01), arXiv:2201.11585 (2022-01-27).
- 1129 – “Observation of $B^0 \rightarrow \psi(2S)K_S^0\pi^+\pi^-$ and $B_s^0 \rightarrow \psi(2S)K_S^0$ decays”
CMS-BPH-18-004, EPJC 82 (2022) 499 (2022-05-31), arXiv: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, PRL 129 (2022) 021802 (2022-07-06), arXiv:2201.08476 (2022-01-20).
- 1127 – “Identification of hadronic tau lepton decays using a deep neural network”
CMS-TAU-20-001, JINST 17 (2022) P07023 (2022-07-13), arXiv: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, PRD 105 (2022) 072008 (2022-04-01), arXiv: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, JHEP 06 (2022) 082 (2022-06-15), arXiv:2201.07859 (2022-01-19).
- 1124 – “Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-21-004, JHEP 05 (2022) 091 (2022-05-16), arXiv: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, JHEP 07 (2022) 081 (2022-07-14), arXiv: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, JHEP 05 (2022) 014 (2022-05-03), arXiv: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, PRL 128 (2022) 252301 (2022-06-21), arXiv: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, PLB 832 (2022) 137263 (2022-09-10), arXiv: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, JHEP 05 (2022) 093 (2022-05-16), arXiv: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, JHEP 04 (2022) 062 (2022-04-11), arXiv: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, PRD 106 (2022) 012002 (2022-07-01), arXiv: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, PRL 129 (2022) 022001 (2022-07-05), arXiv: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, JHEP 06 (2022) 156 (2022-06-29), arXiv: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, JHEP 02 (2022) 169 (2022-02-21), arXiv: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, PRD 105 (2022) 092014 (2022-05-01), arXiv:2112.09659 (2021-12-17).

- 1112 – “Measurement of the inclusive $t\bar{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV”
CMS-TOP-20-004, JHEP 04 (2022) 144 (2022-04-26), arXiv:2112.09114 (2021-12-16).
- 1111 – “Evidence for WW/WZ vector boson scattering in the decay channel $\ell\nu q\bar{q}$ produced in association with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-20-013, PLB 834 (2022) 137438 (2022-11-10), arXiv: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, JHEP 04 (2022) 047 (2022-04-08), arXiv: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, JHEP 05 (2022) 005 (2022-05-02), arXiv: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, EPJC 82 (2022) 1094 (2022-12-05), arXiv:2112.00895 (2021-12-02).
- 1107 – “Measurement of $W^\pm\gamma$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV and effective field theory constraints”
CMS-SMP-20-005, PRD 105 (2022) 052003 (2022-03-01), arXiv: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, JHEP 04 (2022) 087 (2022-04-14), arXiv: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, JHEP 02 (2022) 142 (2022-12-07), arXiv: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, JHEP 04 (2022) 048 (2022-04-08), arXiv:2111.10216 (2021-11-19).
- 1103 – “Strategies and performance of the CMS silicon tracker alignment during LHC Run 2”
CMS-TRK-20-001, NIM A 1037 (2022) 166795 (2022-08-11), arXiv: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, JHEP 04 (2022) 091 (2022-04-14), arXiv: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, NP 19 (2023) 338 (2023-01-19), arXiv: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, JHEP 03 (2022) 189 (2022-03-28), arXiv: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, JINST 17 (2022) P03014 (2022-03-17), arXiv: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, JHEP 02 (2022) 107 (2022-02-14), arXiv: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, PRL 129 (2022) 032001 (2022-07-13), arXiv: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, EPJC 82 (2022) 290 (2022-04-04), arXiv: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, JHEP 03 (2022) 160 (2022-03-24), arXiv: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, JHEP 07 (2022) 032 (2022-07-05), arXiv: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, PRL 129 (2022) 011801 (2022-06-28), arXiv: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, JHEP 06 (2022) 012 (2022-06-03), arXiv: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, EPJC 82 (2022) 153 (2022-02-17), arXiv: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, JHEP 01 (2022) 177 (2022-01-28), arXiv:2109.13822 (2021-09-29).
- 1089 – “Search for heavy resonances decaying to $Z(\nu\bar{\nu})V(q\bar{q}')$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-B2G-20-008, PRD 106 (2022) 012004 (2022-07-01), arXiv: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, PRD 105 (2022) 032008 (2022-02-01), arXiv: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, JHEP 01 (2022) 188 (2022-01-31), arXiv: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, PLB 829 (2022) 137062 (2022-04-04), arXiv: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, JHEP 11 (2021) 111 (2021-11-15), arXiv: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, JHEP 12 (2021) 161 (2021-12-22), arXiv:2108.10407 (2021-08-24).
- 1083 – “Measurement of differential $t\bar{t}$ 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, PRD 104 (2021) 092013 (2021-11-01), arXiv: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, JHEP 12 (2021) 083 (2021-12-13), arXiv: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, JHEP 11 (2021) 153 (2021-11-19), arXiv: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, JHEP 10 (2021) 045 (2021-10-06), arXiv: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, PRL 128 (2022) 081805 (2022-02-23), arXiv: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, EPJC 81 (2021) 970 (2021-11-03), arXiv: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, PRL 127 (2021) 261804 (2021-12-23), arXiv:2107.04838 (2021-07-10).

- 1076 – “Measurement of the inclusive and differential $t\bar{t}\gamma$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV”
CMS-TOP-18-010, JHEP 12 (2021) 180 (2021-12-23), arXiv: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, JHEP 11 (2021) 225 (2021-11-30), arXiv: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, PRL 127 (2021) 191801 (2021-11-02), arXiv: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, JHEP 04 (2022) 147 (2022-04-26), arXiv: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, PLB 825 (2021) 136842 (2022-02-10), arXiv:2106.13235 (2021-06-23).
- 1071 – “Measurement of the electroweak production of $Z\gamma$ and two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on anomalous quartic gauge couplings”
CMS-SMP-20-016, PRD 104 (2021) 072001 (2021-10-05), arXiv:2106.11082 (2021-06-21).
- 1070 – “Search for $W\gamma$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV using hadronic decays of Lorentz-boosted W bosons”
CMS-EXO-20-001, PLB 826 (2022) 136888 (2022-03-10), arXiv:2106.10509 (2021-06-19).
- 1069 – “Search for a heavy Higgs boson decaying into two lighter Higgs bosons in the $\tau\tau b\bar{b}$ final state at 13 TeV”
CMS-HIG-20-014, JHEP 11 (2021) 057 (2021-11-09), arXiv: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, JHEP 10 (2021) 176 (2021-10-21), arXiv:2105.14511 (2021-05-30).
- 1067 – “Measurements of the $pp \rightarrow W^\pm\gamma\gamma$ and $pp \rightarrow Z\gamma\gamma$ cross sections at $\sqrt{s} = 13$ TeV and limits on anomalous quartic gauge couplings”
CMS-SMP-19-013, JHEP 10 (2021) 174 (2021-10-21), arXiv: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, EPJC 82 (2022) 213 (2022-03-10), arXiv:2105.09178 (2021-05-19).
- 1065 – “Search for lepton-flavor violating decays of the Higgs boson in the $\mu\tau$ and $e\tau$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-20-009, PRD 104 (2021) 032013 (2021-08-01), arXiv: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, PRD 104 (2021) 052011 (2021-09-01), arXiv: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, JHEP 12 (2021) 106 (2021-12-16), arXiv: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, PRD 104 (2021) 052004 (2021-09-01), arXiv: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, PLB 820 (2021) 136535 (2021-09-10), arXiv: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, EPJC 81 (2021) 723 (2021-08-11), arXiv: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, EPJC 81 (2021) 800 (2021-09-09), arXiv: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, PRL 127 (2021) 102002 (2021-08-31), arXiv: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, JHEP 07 (2021) 027 (2021-07-07), arXiv: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, EPJC 81 (2021) 488 (2021-06-02), arXiv:2103.04956 (2021-03-08).
- 1055 – “Using Z boson events to study parton-medium interactions in PbPb collisions”
CMS-HIN-19-006, PRL 128 (2022) 122301 (2022-03-23), arXiv: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, JHEP 07 (2021) 208 (2021-07-27), arXiv: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, PRD 104 (2021) 052001 (2021-09-01), arXiv: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, JHEP 05 (2021) 182 (2021-05-20), arXiv:2102.13648 (2021-02-26).
- 1051 – “First measurement of large area jet transverse momentum spectra in heavy-ion collisions”
CMS-HIN-18-014, JHEP 05 (2021) 284 (2021-05-31), arXiv: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, PRL 128 (2022) 032001 (2022-01-19), arXiv: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, EPJC 81 (2021) 852 (2021-09-27), arXiv: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, EPJC 81 (2021) 688 (2021-08-03), arXiv: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, PRD 104 (2021) 032006 (2021-08-01), arXiv: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, PRD 104 (2021) 032009 (2021-08-26), arXiv: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, JINST 16 (2021) P07001 (2021-07-02), arXiv:2102.04790 (2021-02-09).
- 1044 – “Observation of a new excited beauty strange baryon decaying to $\Xi_b^- \pi^+ \pi^-$ ”
CMS-BPH-20-004, PRL 126 (2021) 252003 (2021-06-25), arXiv:2102.04524 (2021-02-08).
- 1043 – “Measurement of $W\gamma$ production cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV and constraints on effective field theory coefficients”
CMS-SMP-19-002, PRL 126 (2021) 252002 (2021-06-25), arXiv: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, JHEP 05 (2021) 285 (2021-05-31), arXiv: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, JHEP 05 (2021) 116 (2021-05-14), arXiv: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, PLB 820 (2021) 136565 (2021-09-10), arXiv:2012.09225 (2020-12-17).
- 1039 – “Measurement of the Z boson differential production cross section using its invisible decay mode ($Z \rightarrow \nu\bar{\nu}$) in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-18-003, JHEP 05 (2021) 205 (2021-05-21), arXiv: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, JHEP 04 (2021) 123 (2021-04-14), arXiv:2012.08600 (2020-12-15).
- 1037 – “Electron and photon reconstruction and identification with the CMS experiment at the CERN LHC”
CMS-EGM-17-001, JINST 16 (2021) P05014 (2021-05-13), arXiv: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, PLB 819 (2021) 136446 (2021-08-10), arXiv: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, JHEP 03 (2021) 095 (2021-03-09), arXiv: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, JHEP 04 (2021) 109 (2021-04-13), arXiv: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, PRD 104 (2021) 012015 (2021-07-01), arXiv: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, JHEP 03 (2021) 257 (2021-03-29), arXiv: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, PLB 819 (2021) 136409 (2021-08-10), arXiv: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, PRL 127 (2021) 122001 (2021-09-17), arXiv: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, EPJC 81 (2021) 378 (2021-04-30), arXiv:2011.03652 (2020-11-07).
- 1028 – “Development and validation of HERWIG 7 tunes from CMS underlying-event measurements”
CMS-GEN-19-001, EPJC 81 (2021) 312 (2021-04-12), arXiv:2011.03422 (2020-11-06).
- 1027 – “The very forward CASTOR calorimeter of the CMS experiment”
CMS-PRF-18-002, JINST 16 (2021) P02010 (2021-02-08), arXiv:2011.01185 (2020-11-02).
- 1026 – “Angular analysis of the decay $B^+ \rightarrow K^*(892)^+\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-15-009, JHEP 04 (2021) 124 (2021-04-14), arXiv: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, EPJC 81 (2021) 629 (2021-07-19), arXiv: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, JHEP 03 (2021) 011 (2021-03-01), arXiv: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 \bar{D}^0 mesons”
CMS-HIN-19-008, PLB 816 (2021) 136253 (2021-05-10), arXiv: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, PLB 812 (2020) 136018 (2021-01-10), arXiv:2009.09429 (2020-09-20).
- 1021 – “Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the dilepton final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-19-008, PRD 102 (2020) 092013 (2020-11-30), arXiv: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, PLB 813 (2021) 136036 (2021-02-10), arXiv:2009.07065 (2020-09-15).
- 1019 – “Evidence for Higgs boson decay to a pair of muons”
CMS-HIG-19-006, JHEP 01 (2021) 148 (2021-01-25), arXiv: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, EPJC 81 (2021) 200 (2021-03-01), arXiv:2009.01186 (2020-09-02).
- 1017 – “ W^+W^- boson pair production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-18-004, PRD 102 (2020) 092001 (2020-11-10), arXiv:2009.00119 (2020-09-01).
- 1016 – “Observation of electroweak production of $W\gamma$ with two jets in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-19-008, PLB 811 (2020) 135988 (2020-12-10), arXiv: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, PRD 102 (2020) 112004 (2020-12-07), arXiv:2008.09835 (2020-08-22).
- 1014 – “Measurement of $B_c(2S)^+$ and $B_c^*(2S)^+$ cross section ratios in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-19-001, PRD 102 (2020) 092007 (2020-11-17), arXiv:2008.08629 (2020-08-19).
- 1013 – “Measurement of differential $t\bar{t}$ production cross sections using top quarks at large transverse momenta in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-18-013, PRD 103 (2021) 052008 (2021-03-20), arXiv: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, PLB 812 (2020) 135992 (2021-01-10), arXiv: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, EPJC 81 (2021) 3 (2021-01-05), arXiv: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, EPJC 81 (2021) 13 (2021-01-11), arXiv: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, JHEP 09 (2020) 149 (2020-09-23), arXiv: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, PRD 102 (2020) 092012 (2020-11-30), arXiv:2008.04174 (2020-08-10).
- 1007 – “Search for the lepton flavor violating decay $\tau \rightarrow 3\mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-17-004, JHEP 01 (2021) 163 (2021-01-26), arXiv: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, JHEP 11 (2020) 039 (2020-11-10), arXiv:2007.05122 (2020-07-09).
- 1005 – “Investigation into the event-activity dependence of $\Upsilon(nS)$ relative production in proton-proton collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-14-009, JHEP 11 (2020) 001 (2020-11-02), arXiv:2007.04277 (2020-07-09).

- 1004 – “Measurement of the CP-violating phase ϕ_s in the $B_s^0 \rightarrow J/\psi \phi(1020) \rightarrow \mu^+ \mu^- K^+ K^-$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-20-001, PLB 816 (2021) 136188 (2021-05-10), arXiv: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, JHEP 03 (2021) 003 (2021-03-01), arXiv: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, JINST 15 (2020) P10002 (2020-10-01), arXiv: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, JHEP 12 (2020) 085 (2020-12-11), arXiv:2006.13251 (2020-06-24).
- 1000 – “Observation of the production of three massive gauge bosons at $\sqrt{s} = 13$ TeV”
CMS-SMP-19-014, PRL 125 (2020) 151802 (2020-10-06), arXiv:2006.11191 (2020-06-19).
- 999 – “Evidence for top quark production in nucleus-nucleus collisions”
CMS-HIN-19-001, PRL 125 (2020) 222001 (2020-11-24), arXiv: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, JINST 15 (2020) P10017 (2020-10-19), arXiv:2006.10165 (2020-06-18).
- 997 – “Measurement of the azimuthal anisotropy of $\Upsilon(1S)$ and $\Upsilon(2S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-19-002, PLB 819 (2021) 136385 (2021-08-10), arXiv: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, PRD 102 (2020) 032003 (2020-08-13), arXiv: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, JHEP 05 (2021) 054 (2021-05-07), arXiv: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, PRD 102 (2020) 072001 (2020-10-06), arXiv:2005.08900 (2020-05-18).
- 993 – “Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-024, JHEP 08 (2020) 139 (2020-08-27), arXiv: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, JHEP 12 (2020) 082 (2020-12-11), arXiv:2005.05159 (2020-05-11).
- 991 – “Observation of the $B_s^0 \rightarrow X(3872)\phi$ decay”
CMS-BPH-17-005, PRL 125 (2020) 152001 (2020-10-08), arXiv: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, JHEP 08 (2020) 051 (2020-08-12), arXiv: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, PLB 809 (2020) 135710 (2020-10-10), arXiv: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, PLB 808 (2020) 135609 (2020-09-10), arXiv:2004.12181 (2020-04-25).
- 987 – “Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques”
CMS-JME-18-002, JINST 15 (2020) P06005 (2020-06-03), arXiv:2004.08262 (2020-04-17).
- 986 – “Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-19-010, PLB 806 (2020) 135502 (2020-07-10), arXiv: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, JHEP 07 (2020) 115 (2020-07-17), arXiv: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, JHEP 07 (2020) 116 (2020-07-17), arXiv:2003.12797 (2020-03-28).
- 983 – “Measurements of $t\bar{t}H$ 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, PRL 125 (2020) 061801 (2020-08-06), arXiv:2003.10866 (2020-03-25).
- 982 – “Measurement of the cross section for $t\bar{t}$ production with additional jets and b jets in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-18-002, JHEP 07 (2020) 125 (2020-07-20), arXiv:2003.06467 (2020-03-14).
- 981 – “Study of central exclusive $\pi^+\pi^-$ production in proton-proton collisions at $\sqrt{s} = 5.02$ and 13 TeV”
CMS-FSQ-16-006, EPJC 80 (2020) 718 (2020-08-10), arXiv:2003.02811 (2020-03-05).
- 980 – “Pileup mitigation at CMS in 13 TeV data”
CMS-JME-18-001, JINST 15 (2020) P09018 (2020-09-15), arXiv: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, EPJC 80 (2020) 1164 (2020-12-17), arXiv: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, JHEP 06 (2020) 076 (2020-06-10), arXiv:2002.09902 (2020-02-23).
- 977 – “A measurement of the Higgs boson mass in the diphoton decay channel”
CMS-HIG-19-004, PLB 805 (2020) 135425 (2020-06-10), arXiv:2002.06398 (2020-02-15).
- 976 – “Measurement of the $\Upsilon(1S)$ pair production cross section and search for resonances decaying to $\Upsilon(1S)\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-18-002, PLB 808 (2020) 135578 (2020-09-10), arXiv: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, EPJC 80 (2020) 752 (2020-08-18), arXiv: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, JHEP 07 (2020) 126 (2020-07-20), arXiv: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, PRD 102 (2020) 032007 (2020-08-20), arXiv: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, JINST 15 (2020) P06009 (2020-06-08), arXiv:2001.06553 (2020-01-18).
- 971 – “Study of excited Λ_b^0 states decaying to $\Lambda_b^0\pi^+\pi^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-19-003, PLB 803 (2020) 135345 (2020-04-10), arXiv: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, JHEP 05 (2020) 052 (2020-05-12), arXiv:2001.04521 (2020-01-13).
- 969 – “A deep neural network to search for new long-lived particles decaying to jets”
CMS-EXO-19-011, MLST 1 (2020) 035012 (2020-08-18), arXiv: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, JHEP 06 (2020) 146 (2020-06-24), arXiv: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, JHEP 05 (2020) 032 (2020-05-08), arXiv: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, PRL 124 (2020) 162002 (2020-04-25), arXiv:1912.07706 (2019-12-16).
- 965 – “A deep neural network for simultaneous estimation of b jet energy and resolution”
CMS-HIG-18-027, CSBS 4 (2020) 10 (2020-10-30), arXiv: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, PRL 124 (2020) 131802 (2020-04-04), arXiv:1912.04776 (2019-12-10).
- 963 – “Determination of the strong coupling constant $\alpha_S(m_Z)$ 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, JHEP 06 (2020) 018 (2020-06-01), arXiv: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, JINST 15 (2020) P02027 (2020-02-28), arXiv:1912.03516 (2019-12-07).
- 961 – “A search for the standard model Higgs boson decaying to charm quarks”
CMS-HIG-18-031, JHEP 03 (2020) 131 (2020-03-24), arXiv: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, JHEP 03 (2020) 034 (2020-03-06), arXiv: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, JHEP 02 (2020) 191 (2020-02-28), arXiv:1911.13204 (2019-11-29).
- 958 – “Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-017, JHEP 03 (2020) 103 (2020-03-18), arXiv: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, PRD 1010 (2020) 052010 (2020-03-25), arXiv: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, JHEP 03 (2020) 051 (2020-03-10), arXiv: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, JHEP 05 (2020) 033 (2020-05-08), arXiv: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, PRL 124 (2020) 202001 (2020-05-22), arXiv:1911.03800 (2019-11-09).
- 953 – “Observation of the $\Lambda_b^0 \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-19-002, PLB 802 (2020) 135203 (2020-03-10), arXiv:1911.03789 (2019-11-09).
- 952 – “Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow \ell^+ \ell^- b\bar{b}$ process in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-012, JHEP 03 (2020) 055 (2020-03-10), arXiv: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, PLB 805 (2020) 135448 (2020-06-10), arXiv: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, PRL 125 (2020) 102001 (2020-09-03), arXiv: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, JHEP 02 (2020) 015 (2020-02-03), arXiv:1910.12932 (2019-10-28).
- 948 – “Measurement of properties of $B_s^0 \rightarrow \mu^+ \mu^-$ decays and search for $B^0 \rightarrow \mu^+ \mu^-$ with the CMS experiment”
CMS-BPH-16-004, JHEP 04 (2020) 188 (2020-04-28), arXiv: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, JHEP 03 (2020) 065 (2020-03-11), arXiv: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, JHEP 03 (2020) 014 (2020-03-03), arXiv: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, EPJC 80 (2020) 534 (2020-06-13), arXiv: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, PRC 101 (2020) 064906 (2020-06-23), arXiv: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, PLB 804 (2020) 135409 (2020-05-10), arXiv: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, PRL 124 (2020) 041803 (2020-01-30), arXiv: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, JINST 15 (2020) P05002 (2020-05-05), arXiv: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, PLB 803 (2020) 135263 (2020-04-10), arXiv: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, EPJC 80 (2020) 41 (2020-01-17), arXiv: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, PRD 100 (2019) 112003 (2019-12-09), arXiv:1909.06166 (2019-09-13).
- 937 – “Measurement of the $t\bar{t}b\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-18-011, PLB 803 (2020) 135285 (2020-04-10), arXiv: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, JHEP 01 (2020) 036 (2020-01-08), arXiv: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, JHEP 12 (2019) 061 (2019-12-09), arXiv: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, PRD 100 (2019) 112007 (2019-12-22), arXiv: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, EPJC 80 (2020) 3 (2020-01-03), arXiv: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, JHEP 01 (2020) 096 (2020-01-16), arXiv:1908.09206 (2019-08-25).
- 931 – “Search for supersymmetry using Higgs boson to diphoton decays at $\sqrt{s} = 13$ TeV”
CMS-SUS-18-007, JHEP 11 (2019) 109 (2019-12-04), arXiv: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, EPJC 80 (2020) 75 (2020-01-31), arXiv: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, JHEP 10 (2019) 244 (2019-10-25), arXiv: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, JHEP 10 (2019) 139 (2019-10-10), arXiv: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, EPJC 79 (2019) 893 (2019-11-05), arXiv: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, JHEP 03 (2020) 025 (2020-03-04), arXiv: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, JHEP 04 (2020) 171 (2020-04-27), arXiv: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, EPJC 80 (2020) 189 (2020-03-02), arXiv: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, JHEP 03 (2020) 056 (2020-03-10), arXiv: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, JHEP 12 (2019) 062 (2019-12-09), arXiv: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, EPJC 80 (2020) 370 (2020-05-06), arXiv: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, EPJC 79 (2019) 969 (2019-11-25), arXiv: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, PLB 800 (2019) 135087 (2020-01-10), arXiv:1907.07235 (2019-07-16).
- 918 – “Search for physics beyond the standard model in events with overlapping photons and jets”
CMS-B2G-18-007, PRL 123 (2019) 241801 (2019-12-11), arXiv:1907.06275 (2019-07-14).
- 917 – “Study of the $B^+ \rightarrow J/\psi \bar{\Lambda} p$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-18-005, JHEP 12 (2019) 100 (2019-12-12), arXiv:1907.05461 (2019-07-11).
- 916 – “Measurement of the top quark polarization and $t\bar{t}$ spin correlations using dilepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-18-006, PRD 100 (2019) 072002 (2019-10-09), arXiv:1907.03729 (2019-07-08).
- 915 – “Search for MSSM Higgs bosons decaying to $\mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-010, PLB 798 (2019) 134992 (2019-11-10), arXiv:1907.03152 (2019-07-06).
- 914 – “Measurement of the top quark Yukawa coupling from $t\bar{t}$ kinematic distributions in the lepton+jets final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-17-004, PRD 100 (2019) 072007 (2019-10-18), arXiv: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, PLB 801 (2020) 135183 (2020-02-10), arXiv:1907.00857 (2019-07-01).

- 912 – “Search for pair production of vector-like quarks in the fully hadronic final state”
CMS-B2G-18-005, PRD 100 (2019) 072001 (2019-10-09), arXiv: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, PLB 797 (2019) 134876 (2019-10-10), arXiv: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, EPJC 80 (2020) 237 (2020-03-12), arXiv: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, PLB 803 (2020) 135328 (2020-04-10), arXiv: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, JHEP 11 (2019) 082 (2019-11-14), arXiv:1906.02805 (2019-06-07).
- 907 – “Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons”
CMS-B2G-18-006, PLB 798 (2019) 134952 (2019-11-10), arXiv: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, JHEP 08 (2019) 150 (2019-08-27), arXiv: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, PRD 100 (2019) 052003 (2019-09-07), arXiv: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, PLB 797 (2019) 134811 (2019-10-10), arXiv: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, PRL 123 (2019) 231803 (2019-12-04), arXiv: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, PRC 103 (2021) 014902 (2021-01-15), arXiv: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 $e\mu\mu$ or $\mu\mu\mu$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-020, PRL 123 (2019) 131802 (2019-09-24), arXiv: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, PLB 798 (2019) 134985 (2019-11-10), arXiv: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, PRD 100 (2019) 012004 (2019-07-27), arXiv: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, PLB 800 (2020) 135048 (2020-01-10), arXiv:1905.01486 (2019-05-04).
- 897 – “Multiparticle correlation studies in pPb collisions at $\sqrt{s_{NN}} = 8.16$ TeV”
CMS-HIN-17-004, PRC 101 (2020) 014912 (2020-01-24), arXiv:1904.11519 (2019-04-25).
- 896 – “Measurement of $t\bar{t}$ 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, EPJC 80 (2020) 658 (2020-07-22), arXiv:1904.05237 (2019-04-10).
- 895 – “Search for resonances decaying to a pair of Higgs bosons in the $b\bar{b}q\bar{q}'\ell\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-B2G-18-008, JHEP 10 (2019) 125 (2019-10-09), arXiv: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, EPJC 80 (2020) 4 (2020-01-03), arXiv: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, EPJC 79 (2019) 886 (2019-11-01), arXiv:1903.11144 (2019-03-26).
- 892 – “Search for a low-mass $\tau^- \tau^+$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-014, JHEP 05 (2019) 210 (2019-05-31), arXiv: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, JHEP 06 (2019) 143 (2019-06-28), arXiv: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, PRD 100 (2019) 112002 (2019-12-05), arXiv: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, JINST 14 (2019) P07004 (2019-07-04), arXiv:1903.06078 (2019-03-14).
- 888 – “Search for charged Higgs bosons in the $H^\pm \rightarrow \tau^\pm \nu_\tau$ decay channel in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-18-014, JHEP 07 (2019) 142 (2019-07-24), arXiv: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, EPJC 80 (2020) 43 (2020-01-18), arXiv:1903.04040 (2019-03-10).
- 886 – “An embedding technique to determine $\tau\tau$ backgrounds in proton-proton collision data”
CMS-TAU-18-001, JINST 14 (2019) P06032 (2019-06-21), arXiv: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, EPJC 79 (2019) 564 (2019-07-03), arXiv:1903.00941 (2019-03-03).
- 884 – “Combinations of single-top-quark production cross-section measurements and $|f_{LV}V_{tb}|$ determinations at $\sqrt{s} = 7$ and 8 TeV with the ATLAS and CMS experiments”
CMS-TOP-17-006, JHEP 05 (2019) 088 (2019-05-16), arXiv: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, EPJC 79 (2019) 773 (2019-09-18), arXiv: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, PLB 799 (2019) 135049 (2019-12-10), arXiv:1902.03603 (2019-02-10).
- 881 – “Measurement of exclusive $\rho(770)^0$ photoproduction in ultraperipheral pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-FSQ-16-007, EPJC 79 (2019) 702 (2019-08-21), arXiv:1902.01339 (2019-02-05).
- 880 – “Observation of two excited B_c^+ states and measurement of the $B_c^+(2S)$ mass in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-18-007, PRL 122 (2019) 132001 (2019-04-03), arXiv:1902.00571 (2019-02-01).
- 879 – “Search for W boson decays to three charged pions”
CMS-SMP-18-009, PRL 122 (2019) 151802 (2019-04-19), arXiv:1901.11201 (2019-01-30).
- 878 – “Charged-particle angular correlations in XeXe collisions at $\sqrt{s_{NN}} = 5.44$ TeV”
CMS-HIN-18-001, PRC 100 (2019) 044902 (2019-10-04), arXiv: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, EPJC 79 (2019) 444 (2019-05-25), arXiv: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, PLB 795 (2019) 281 (2019-08-10), arXiv: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, JHEP 04 (2019) 122 (2019-04-18), arXiv: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, JHEP 03 (2019) 141 (2019-03-25), arXiv:1901.01553 (2019-01-06).
- 873 – “Search for the pair production of light top squarks in the $e^{\pm}\mu^{\mp}$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-SUS-18-003, JHEP 03 (2019) 101 (2019-03-18), arXiv: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, PRD 99 (2019) 112003 (2019-06-12), arXiv:1901.00174 (2019-01-01).
- 871 – “Measurement of the $t\bar{t}$ 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, EPJC 79 (2019) 368 (2019-04-29), arXiv: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, JHEP 12 (2019) 059 (2019-12-09), arXiv: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, EPJC 79 (2019) 313 (2019-04-06), arXiv: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, JHEP 04 (2019) 114 (2019-04-17), arXiv: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, PLB 800 (2019) 135042 (2020-01-10), arXiv: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, EPJC 79 (2019) 364 (2019-04-26), arXiv: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, PLB 792 (2019) 369 (2019-05-10), arXiv: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, EPJC 79 (2019) 208 (2019-03-07), arXiv: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, JHEP 03 (2019) 031 (2019-03-06), arXiv: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, PLB 795 (2019) 398 (2019-08-10), arXiv: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, PRL 122 (2019) 132003 (2019-04-06), arXiv: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, JHEP 01 (2019) 154 (2019-01-18), arXiv: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, EPJC 79 (2019) 391 (2019-05-07), arXiv: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, JHEP 05 (2019) 043 (2019-05-07), arXiv: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, PLB 796 (2019) 131 (2019-09-10), arXiv: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, EPJC 79 (2019) 269 (2019-03-23), arXiv: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, PLB 795 (2019) 76 (2019-08-10), arXiv: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, EPJC 79 (2019) 305 (2019-04-04), arXiv: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, PRD 99 (2019) 092005 (2019-05-21), arXiv: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, PRL 122 (2019) 121803 (2019-03-30), arXiv: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, PLB 793 (2019) 320 (2019-06-10), arXiv: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, PRD 99 (2019) 032011 (2019-02-22), arXiv: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, JHEP 03 (2019) 127 (2019-03-22), arXiv: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, EPJC 79 (2019) 280 (2019-03-27), arXiv:1811.06562 (2018-11-16).
- 847 – “Measurements of $t\bar{t}$ differential cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV using events containing two leptons”
CMS-TOP-17-014, JHEP 02 (2019) 149 (2019-02-22), arXiv:1811.06625 (2018-11-17).
- 846 – “Search for excited leptons in $\ell\ell\gamma$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-18-004, JHEP 04 (2019) 015 (2019-04-02), arXiv:1811.03052 (2018-11-07).
- 845 – “Search for pair production of first-generation scalar leptoquarks at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-009, PRD 99 (2019) 052002 (2019-03-16), arXiv: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, JHEP 03 (2019) 170 (2019-03-26), arXiv: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, JHEP 12 (2018) 117 (2018-12-19), arXiv:1811.00588 (2018-11-02).
- 842 – “Search for nonresonant Higgs boson pair production in the $b\bar{b}b\bar{b}$ final state at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-017, JHEP 04 (2019) 112 (2019-04-17), arXiv: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, PRD 99 (2019) 012005 (2018-11-26), arXiv:1810.11822 (2018-10-28).
- 840 – “Studies of beauty suppression via nonprompt D^0 mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-16-016, PRL 123 (2019) 022001 (2019-07-10), arXiv: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, PRD 99 (2019) 012010 (2019-01-23), arXiv:1810.10092 (2018-10-23).
- 838 – “Search for new particles decaying to a jet and an emerging jet”
CMS-EXO-18-001, JHEP 02 (2019) 179 (2019-02-26), arXiv: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, EPJC 79 (2019) 94 (2019-01-30), arXiv:1810.10056 (2018-10-23).
- 836 – “Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-B2G-17-017, JHEP 04 (2019) 031 (2019-04-03), arXiv: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, PRC 100 (2019) 024902 (2019-08-02), arXiv: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, PLB 797 (2019) 134826 (2019-10-10), arXiv: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, JHEP 03 (2019) 082 (2019-03-14), arXiv: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, PLB 796 (2019) 168 (2019-09-10), arXiv: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, PLB 791 (2019) 172 (2019-04-10), arXiv: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, EPJC 79 (2019) 277 (2019-03-26), arXiv: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, JHEP 02 (2019) 074 (2019-02-13), arXiv: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, EPJC 79 (2019) 421 (2019-05-20), arXiv: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, PRL 122 (2019) 152001 (2019-04-18), arXiv: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, EPJC 79 (2019) 90 (2019-01-30), arXiv: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, PLB 793 (2019) 520 (2019-06-10), arXiv: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, PRL 121 (2018) 241802 (2018-12-13), arXiv: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, JHEP 06 (2019) 093 (2019-06-19), arXiv:1809.03590 (2018-09-10).

- 822 – “Studies of $B_{s2}^*(5840)^0$ and $B_{s1}(5830)^0$ mesons including the observation of the $B_{s2}^*(5840)^0 \rightarrow B^0 K_S^0$ decay in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-16-003, EPJC 78 (2018) 939 (2018-11-15), arXiv: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, JINST 13 (2018) P10005 (2018-10-02), arXiv: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, PRD 98 (2018) 092001 (2018-11-02), arXiv: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, JHEP 10 (2018) 138 (2018-10-22), arXiv:1809.00201 (2018-09-01).
- 818 – “Observation of Higgs boson decay to bottom quarks”
CMS-HIG-18-016, PRL 121 (2018) 121801 (2018-09-18), arXiv:1808.08242 (2018-08-24).
- 817 – “Measurement of jet substructure observables in $t\bar{t}$ events from proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-17-013, PRD 98 (2018) 092014 (2018-11-30), arXiv: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, JHEP 11 (2018) 115 (2018-11-20), arXiv:1808.06575 (2018-08-20).
- 815 – “Search for pair production of second-generation leptoquarks at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-003, PRD 99 (2019) 032014 (2019-02-28), arXiv:1808.05082 (2018-08-15).
- 814 – “Search for an $L_\mu - L_\tau$ gauge boson using $Z \rightarrow 4\mu$ events in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-18-008, PLB 792 (2019) 345 (2019-05-10), arXiv: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, PRD 98 (2018) 112014 (2018-12-29), arXiv: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, PRD 98 (2018) 092011 (2018-11-17), arXiv: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, PRL 121 (2018) 221802 (2018-11-30), arXiv: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, JHEP 11 (2018) 161 (2018-11-26), arXiv: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, JHEP 01 (2019) 040 (2019-01-04), arXiv: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, JHEP 01 (2019) 051 (2019-01-07), arXiv:1808.01365 (2018-08-03).
- 807 – “Search for narrow $H\gamma$ resonances in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-019, PRL 122 (2019) 081804 (2019-03-01), arXiv: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, PLB 792 (2019) 107 (2019-05-10), arXiv: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, JHEP 11 (2018) 079 (2018-11-13), arXiv: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, PRL 122 (2019) 011803 (2019-01-11), arXiv: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, PRL 122 (2019) 021801 (2019-01-15), arXiv: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, JHEP 11 (2018) 113 (2018-11-20), arXiv: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, JHEP 01 (2019) 183 (2019-01-24), arXiv:1807.03825 (2018-07-11).
- 800 – “Precision measurement of the structure of the CMS inner tracking system using nuclear interactions”
CMS-TRK-17-001, JINST 13 (2018) P10034 (2018-10-29), arXiv: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, JHEP 11 (2018) 172 (2018-11-28), arXiv: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, EPJC 79 (2019) 123 (2019-02-07), arXiv: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, JHEP 11 (2018) 151 (2018-11-23), arXiv: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, EPJC 79 (2019) 20 (2019-01-10), arXiv: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, EPJC 78 (2018) 697 (2018-08-31), arXiv: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, PLB 789 (2019) 19 (2019-02-10), arXiv: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, JHEP 01 (2019) 122 (2019-01-15), arXiv:1806.10905 (2018-06-28).
- 792 – “Search for the decay of a Higgs boson in the $\ell\ell\gamma$ channel in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-007, JHEP 11 (2018) 152 (2018-11-23), arXiv: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, PLB 790 (2019) 005 (2019-03-10), arXiv: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, PLB 791 (2019) 96 (2019-02-19), arXiv:1806.05246 (2018-06-14).
- 789 – “Search for dark matter produced in association with a Higgs boson decaying to $\gamma\gamma$ or $\tau^+\tau^-$ at $\sqrt{s} = 13$ TeV”
CMS-EXO-16-055, JHEP 09 (2018) 046 (2018-09-10), arXiv:1806.04771 (2018-06-13).
- 788 – “Observation of the $Z \rightarrow \psi\ell^+\ell^-$ decay in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-16-001, PRL 121 (2018) 141801 (2018-10-10), arXiv: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, JHEP 08 (2018) 152 (2018-08-23), arXiv: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, JHEP 07 (2018) 115 (2018-07-18), arXiv: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, PRL 121 (2018) 141802 (2018-10-10), arXiv: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, EPJC 78 (2018) 701 (2018-09-01), arXiv: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, JHEP 08 (2018) 130 (2018-08-21), arXiv:1806.00843 (2018-06-03).
- 782 – “Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-15-001, PRD 98 (2018) 112011 (2018-12-21), arXiv:1806.00636 (2018-06-02).
- 781 – “Search for Higgs boson pair production in the $\gamma\gamma b\bar{b}$ final state in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-008, PLB 788 (2018) 7 (2019-01-10), arXiv:1806.00408 (2018-06-01).
- 780 – “Search for beyond the standard model Higgs bosons decaying into a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-16-018, JHEP 08 (2018) 113 (2018-08-20), arXiv:1805.12191 (2018-05-31).
- 779 – “Observation of the $\chi_{b1}(3P)$ and $\chi_{b2}(3P)$ and measurement of their masses”
CMS-BPH-17-008, PRL 121 (2018) 092002 (2018-08-29), arXiv: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, PRD 98 (2018) 032005 (2018-08-11), arXiv: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, PLB 785 (2018) 462 (2018-08-31), arXiv:1805.10191 (2018-05-25).
- 776 – “Measurement of nuclear modification factors of $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ mesons in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-16-023, PLB 790 (2019) 270 (2019-03-10), arXiv: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, JHEP 10 (2018) 117 (2018-10-18), arXiv:1805.07399 (2018-05-18).
- 774 – “Search for black holes and spherons in high-multiplicity final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-023, JHEP 11 (2018) 042 (2018-11-07), arXiv: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, JHEP 09 (2018) 065 (2018-09-12), arXiv: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, JHEP 10 (2018) 161 (2018-10-25), arXiv: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, JHEP 11 (2018) 018 (2018-11-06), arXiv: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, JHEP 08 (2018) 177 (2018-08-28), arXiv: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, PRL 121 (2018) 062002 (2018-08-08), arXiv:1805.04736 (2018-05-13).

- 768 – “Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-16-015, PLB 790 (2019) 509 (2019-03-10), arXiv: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, EPJC 78 (2018) 891 (2018-11-02), arXiv: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, PRL 121 (2018) 082301 (2018-08-21), arXiv: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, JHEP 08 (2018) 016 (2018-08-07), arXiv: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, EPJC 78 (2018) 965 (2018-11-22), arXiv: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, JINST 13 (2018) P06015 (2018-06-19), arXiv:1804.04528 (2018-04-12).
- 762 – “Search for $t\bar{t}H$ production in the $H \rightarrow b\bar{b}$ decay channel with leptonic $t\bar{t}$ decays in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-026, JHEP 03 (2019) 026 (2019-03-05), arXiv: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, JHEP 11 (2018) 185 (2018-11-29), arXiv:1804.02716 (2018-04-08).
- 760 – “Observation of $t\bar{t}H$ production”
CMS-HIG-17-035, PRL 120 (2018) 231801 (2018-06-05), arXiv: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, JHEP 06 (2018) 127 (2018-06-25), arXiv: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, JHEP 06 (2018) 128 (2018-06-25), arXiv: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, JHEP 05 (2018) 148 (2018-05-24), arXiv:1803.11116 (2018-03-29).
- 756 – “Search for a new heavy resonance decaying into a Z boson and a Z or W boson in $2\ell 2q$ final states at $\sqrt{s} = 13$ TeV”
CMS-B2G-17-013, JHEP 09 (2018) 101 (2018-09-18), arXiv: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, PRD 97 (2018) 112003 (2018-06-16), arXiv: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, EPJC 78 (2018) 789 (2018-09-28), arXiv:1803.08030 (2018-03-21).
- 753 – “Search for $t\bar{t}H$ production in the all-jet final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-022, JHEP 06 (2018) 101 (2018-06-20), arXiv:1803.06986 (2018-03-19).
- 752 – “Search for additional neutral MSSM Higgs bosons in the $\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-020, JHEP 09 (2018) 007 (2018-09-03), arXiv: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, JHEP 06 (2018) 120 (2018-06-22), arXiv: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, JHEP 08 (2018) 066 (2018-08-13), arXiv: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, JHEP 07 (2018) 153 (2018-07-24), arXiv: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, JHEP 06 (2018) 002 (2018-06-01), arXiv:1803.03991 (2018-03-11).
- 747 – “Search for a heavy resonance decaying into a Z boson and a vector boson in the $\nu\bar{\nu}q\bar{q}$ final state”
CMS-B2G-17-005, JHEP 07 (2018) 075 (2018-07-11), arXiv: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, EPJC 78 (2018) 707 (2018-09-03), arXiv:1803.02864 (2018-03-08).
- 745 – “Jet properties in PbPb and pp collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-16-020, JHEP 05 (2018) 006 (2018-05-02), arXiv: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, JHEP 05 (2018) 088 (2018-05-15), arXiv: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, PRL 120 (2018) 201801 (2018-05-15), arXiv:1802.06149 (2018-02-17).
- 742 – “Measurement of the Λ_b polarization and angular parameters in $\Lambda_b \rightarrow J/\psi\Lambda$ decays from pp collisions at $\sqrt{s} = 7$ and 8 TeV”
CMS-BPH-15-002, PRD 97 (2018) 072010 (2018-04-18), arXiv: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, PRL 120 (2018) 221801 (2018-05-30), arXiv:1802.02965 (2018-02-08).
- 740 – “Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 13$ TeV”
CMS-FSQ-15-005, JHEP 07 (2018) 161 (2018-07-25), arXiv: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, JHEP 05 (2018) 025 (2018-05-04), arXiv: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, JHEP 06 (2018) 031 (2018-06-05), arXiv:1802.01486 (2018-02-05).
- 737 – “Search for lepton-flavor violating decays of heavy resonances and quantum black holes to $e\mu$ final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-16-058, JHEP 04 (2018) 073 (2018-04-13), arXiv: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, JHEP 03 (2018) 181 (2018-03-29), arXiv: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, JHEP 06 (2018) 027 (2018-06-05), arXiv: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, PRL 121 (2018) 242301 (2018-12-15), arXiv: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, JHEP 03 (2018) 160 (2018-03-27), arXiv:1801.03957 (2018-01-11).

- 732 – “Measurement of the $Z/\gamma^* \rightarrow \tau\tau$ cross section in pp collisions at $\sqrt{s} = 13$ TeV and validation of τ lepton analysis techniques”
CMS-HIG-15-007, EPJC 78 (2018) 708 (2018-09-03), arXiv: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, PLB 782 (2018) 440 (2018-05-25), arXiv: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, JHEP 05 (2018) 127 (2018-05-21), arXiv: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, EPJC 78 (2018) 589 (2018-07-20), arXiv:1712.09814 (2017-12-28).
- 728 – “Measurement of prompt and nonprompt charmonium suppression in PbPb collisions at 5.02 TeV”
CMS-HIN-16-025, EPJC 78 (2018) 509 (2018-06-20), arXiv: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, PLB 783 (2018) 114 (2018-08-10), arXiv: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, PRL 120 (2018) 241801 (2018-06-12), arXiv:1712.08501 (2017-12-22).
- 725 – “Study of Bose-Einstein correlations in pp, pPb, and PbPb collisions at the LHC”
CMS-FSQ-14-002, PRC 97 (2018) 064912 (2018-06-15), arXiv:1712.07198 (2017-12-20).
- 724 – “Search for lepton flavour violating decays of the Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-001, JHEP 06 (2018) 001 (2018-06-01), arXiv: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, JINST 13 (2018) P05011 (2018-05-08), arXiv:1712.07158 (2017-12-19).
- 722 – “Search for the X(5568) state decaying into $B_s^0\pi^\pm$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-16-002, PRL 120 (2018) 202005 (2018-05-19), arXiv: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, EPJC 78 (2018) 566 (2018-07-10), arXiv:1712.05471 (2017-12-14).
- 720 – “Search for $Z\gamma$ resonances using leptonic and hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-EXO-17-005, JHEP 09 (2018) 148 (2018-09-26), arXiv: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, PLB 779 (2018) 358 (2018-04-10), arXiv: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, PRD 97 (2018) 092005 (2018-05-22), arXiv: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, JHEP 06 (2018) 102 (2018-06-20), arXiv: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, JHEP 02 (2018) 032 (2018-02-06), arXiv:1712.02280 (2017-12-06).
- 715 – “Search for pair production of excited top quarks in the lepton+jets final state”
CMS-B2G-16-025, PLB 778 (2018) 349 (2018-03-10), arXiv: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, PLB 785 (2018) 14 (2018-10-10), arXiv:1711.09738 (2017-11-27).
- 713 – “Search for new long-lived particles at $\sqrt{s} = 13$ TeV”
CMS-EXO-16-003, PLB 780 (2018) 432 (2018-05-10), arXiv: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, PLB 780 (2018) 118 (2018-05-10), arXiv: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, PLB 789 (2019) 643 (2019-02-10), arXiv: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, PLB 781 (2018) 390 (2018-06-10), arXiv:1711.04652 (2017-11-13).
- 709 – “Search for ZZ resonances in the $2\ell 2\nu$ final state in proton-proton collisions at 13 TeV”
CMS-B2G-16-023, JHEP 03 (2018) 003 (2018-03-05), arXiv: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, JHEP 07 (2018) 032 (2018-07-05), arXiv:1711.04299 (2017-11-12).
- 707 – “Measurement of the inclusive $t\bar{t}$ cross section in pp collisions at $\sqrt{s} = 5.02$ TeV using final states with at least one charged lepton”
CMS-TOP-16-023, JHEP 03 (2018) 115 (2018-03-20), arXiv: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, JHEP 08 (2018) 011 (2018-08-03), arXiv: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, EPJC 78 (2018) 287 (2018-04-09), arXiv: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, PRD 97 (2018) 032009 (2018-02-16), arXiv:1711.00752 (2017-11-02).
- 703 – “Search for supersymmetry in proton-proton collisions at 13 TeV using identified top quarks”
CMS-SUS-16-050, PRD 97 (2018) 012007 (2018-02-01), arXiv: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, EPJC 78 (2018) 291 (2018-04-11), arXiv: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, EPJC 78 (2018) 140 (2018-02-19), arXiv:1710.10614 (2017-10-30).
- 700 – “Measurement of quarkonium production cross sections in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-BPH-15-005, PLB 780 (2018) 251 (2018-05-10), arXiv: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, JHEP 01 (2018) 045 (2018-01-11), arXiv:1710.09355 (2017-10-26).
- 698 – “Measurement of b hadron lifetimes in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-13-008, EPJC 78 (2018) 457 (2018-06-07), arXiv: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, JHEP 02 (2018) 067 (2018-02-12), arXiv: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, JHEP 03 (2018) 172 (2018-03-28), arXiv:1710.07955 (2017-10-22).

- 695 – “Pseudorapidity and transverse momentum dependence of flow harmonics in pPb and PbPb collisions”
CMS-HIN-15-008, PRC 98 (2018) 044902 (2018-10-05), arXiv: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, PLB 781 (2018) 244 (2018-06-10), arXiv:1710.04960 (2017-10-16).
- 693 – “Measurement of angular parameters from the decay $B^0 \rightarrow K^{*0} \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-15-008, PLB 781 (2018) 517 (2018-06-10), arXiv: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, EPJC 78 (2018) 242 (2018-03-21), arXiv:1710.02586 (2017-10-02).
- 691 – “Search for pair production of vector-like quarks in the $bW\bar{b}W$ channel from proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-B2G-17-003, PLB 779 (2018) 82 (2018-04-10), arXiv: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, JHEP 01 (2018) 097 (2018-01-22), arXiv: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, PLB 780 (2018) 384 (2018-05-10), arXiv: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, PRL 120 (2018) 092301 (2018-02-27), arXiv: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, JHEP 03 (2018) 076 (2018-03-13), arXiv:1709.08908 (2017-09-26).
- 686 – “Measurements of the $pp \rightarrow ZZ$ production cross section and the $Z \rightarrow 4\ell$ branching fraction, and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV”
CMS-SMP-16-017, EPJC 78 (2018) 165 (2018-02-24), arXiv:1709.08601 (2017-09-25).
- 685 – “Observation of top quark production in proton-nucleus collisions”
CMS-HIN-17-002, PRL 119 (2017) 242001 (2017-12-14), arXiv:1709.07411 (2017-09-21).
- 684 – “Evidence for the Higgs boson decay to a bottom quark-antiquark pair”
CMS-HIG-16-044, PLB 780 (2018) 501 (2018-05-10), arXiv: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, PRL 120 (2018) 081801 (2018-02-23), arXiv: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, PRL 120 (2018) 071802 (2018-02-15), arXiv: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, JHEP 03 (2018) 166 (2018-03-27), arXiv:1709.05406 (2017-09-15).
- 680 – “Combination of inclusive and differential $t\bar{t}$ charge asymmetry measurements using ATLAS and CMS data at $\sqrt{s} = 7$ and 8 TeV”
CMS-TOP-15-016, JHEP 04 (2018) 033 (2018-04-09), arXiv: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 $H \rightarrow b\bar{b}$ ”
CMS-SUS-16-044, PRD 97 (2018) 032007 (2018-02-09), arXiv: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, PLB 779 (2018) 166 (2018-04-10), arXiv: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, PRL 120 (2018) 142302 (2018-04-03), arXiv: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, PRC 100 (2019) 064908 (2019-12-18), arXiv: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, PLB 777 (2017) 39 (2018-02-10), arXiv: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, PRL 119 (2017) 221802 (2017-12-01), arXiv:1708.07962 (2017-08-25).
- 673 – “Measurement of normalized differential $t\bar{t}$ cross sections in the dilepton channel from pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-16-007, JHEP 04 (2018) 060 (2018-04-11), arXiv: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, PRC 96 (2017) 064902 (2017-12-05), arXiv: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, PRD 97 (2018) 072006 (2018-04-10), arXiv: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, PLB 782 (2018) 474 (2018-07-10), arXiv:1708.04962 (2017-08-16).
- 669 – “Search for resonant and nonresonant Higgs boson pair production in the $b\bar{b}\ell\nu\ell\nu$ final state in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-HIG-17-006, JHEP 01 (2018) 054 (2018-01-12), arXiv: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, PRL 120 (2018) 202301 (2018-05-17), arXiv: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, PLB 774 (2017) 682 (2017-11-10), arXiv: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, PRD 97 (2018) 072008 (2018-04-11), arXiv: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, PRC 97 (2018) 044912 (2018-04-24), arXiv: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, PLB 781 (2018) 574 (2018-06-10), arXiv:1708.01062 (2017-08-03).
- 663 – “Observation of the Higgs boson decay to a pair of τ leptons”
CMS-HIG-16-043, PLB 779 (2018) 283 (2018-04-10), arXiv: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, JHEP 11 (2017) 010 (2017-11-06), arXiv: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, PLB 778 (2018) 263 (2018-03-10), arXiv: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, JHEP 12 (2017) 142 (2017-12-28), arXiv: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, PRD 96 (2017) 072005 (2017-10-27), arXiv: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, JHEP 03 (2018) 167 (2018-03-27), arXiv: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, JHEP 10 (2017) 005 (2017-10-02), arXiv: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, PLB 778 (2018) 101 (2018-03-10), arXiv: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, EPJC 77 (2017) 636 (2017-09-22), arXiv: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, PLB 775 (2017) 1 (2017-12-10), arXiv:1707.00541 (2017-07-03).
- 653 – “A search for Higgs boson pair production in the $bb\tau\tau$ final state in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-15-013, PRD 96 (2017) 072004 (2017-10-20), arXiv: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, PRD 96 (2017) 112003 (2017-12-05), arXiv: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, JHEP 11 (2017) 029 (2017-11-08), arXiv: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, JHEP 11 (2017) 047 (2017-11-09), arXiv: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, PLB 775 (2017) 315 (2017-12-10), arXiv:1706.08578 (2017-06-26).
- 648 – “Exclusive and semi-exclusive $\pi^+\pi^-$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV”
CMS-FSQ-12-004, Superseded by FSQ-16-006, arXiv:1706.08310 (2017-06-25).
- 647 – “Measurement of the semileptonic $t\bar{t}+\gamma$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-14-008, JHEP 10 (2017) 006 (2017-10-02), arXiv: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, PRL 120 (2018) 142301 (2018-04-02), arXiv: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, JHEP 10 (2017) 131 (2017-10-19), arXiv:1706.05868 (2017-06-18).
- 644 – “Particle-flow reconstruction and global event description with the CMS detector”
CMS-PRF-14-001, JINST 12 (2017) P10003 (2017-10-06), arXiv: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, JHEP 10 (2017) 019 (2017-10-03), arXiv: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, JHEP 08 (2017) 029 (2017-08-08), arXiv: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, JHEP 10 (2017) 073 (2017-10-11), arXiv: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, JHEP 11 (2017) 085 (2017-11-15), arXiv: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, EPJC 77 (2017) 845 (2017-12-08), arXiv: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, JHEP 08 (2017) 073 (2017-08-18), arXiv: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, PRL 119 (2017) 111802 (2017-09-15), arXiv:1705.10532 (2017-05-30).
- 636 – “Measurements of $t\bar{t}$ 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, PLB 776 (2018) 355 (2018-01-10), arXiv: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, PLB 774 (2017) 533 (2017-11-10), arXiv: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, PRL 119 (2017) 152301 (2017-10-13), arXiv: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, PRL 119 (2017) 151802 (2017-10-13), arXiv: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, EPJC 77 (2017) 710 (2017-10-26), arXiv: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, PRL 119 (2017) 141802 (2017-10-04), arXiv: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, EPJC 77 (2017) 746 (2017-11-07), arXiv: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, PLB 774 (2017) 279 (2017-11-10), arXiv: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, PRD 96 (2017) 032003 (2017-08-25), arXiv: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, EPJC 77 (2017) 578 (2017-09-01), arXiv:1704.07323 (2017-04-24).
- 626 – “Measurement of the top quark mass in the dileptonic $t\bar{t}$ decay channel using the mass observables $M_{b\ell}$, M_{T2} , and $M_{b\ell\nu}$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-15-008, PRD 96 (2017) 032002 (2017-08-22), arXiv:1704.06142 (2017-04-20).
- 625 – “Search for $t\bar{t}$ resonances in highly-boosted lepton+jets and fully hadronic final states in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-B2G-16-015, JHEP 07 (2017) 001 (2017-07-03), arXiv:1704.03366 (2017-04-11).

- 624 – “Measurements of the $pp \rightarrow W\gamma\gamma$ and $pp \rightarrow Z\gamma\gamma$ cross sections and limits on anomalous quartic gauge couplings at $\sqrt{s} = 8$ TeV”
CMS-SMP-15-008, JHEP 10 (2017) 072 (2017-10-11), arXiv: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, JHEP 07 (2017) 013 (2017-07-05), arXiv: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, JHEP 09 (2017) 053 (2017-09-13), arXiv:1703.06352 (2017-03-18).
- 621 – “Search for anomalous couplings in boosted $WW/WZ \rightarrow \ell\nu q\bar{q}$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-SMP-13-008, PLB 772 (2017) 21 (2017-09-10), arXiv:1703.06095 (2017-03-17).
- 620 – “Measurement of the jet mass in highly boosted $t\bar{t}$ events from pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-15-015, EPJC 77 (2017) 467 (2017-07-14), arXiv:1703.06330 (2017-03-18).
- 619 – “Search for associated production of dark matter with a Higgs boson decaying to $b\bar{b}$ or $\gamma\gamma$ at $\sqrt{s} = 13$ TeV”
CMS-EXO-16-012, JHEP 10 (2017) 180 (2017-10-25), arXiv: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, JHEP 07 (2017) 121 (2017-07-26), arXiv: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, EPJC 77 (2017) 354 (2017-05-29), arXiv: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, EPJC 77 (2017) 459 (2017-07-11), arXiv: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, JHEP 07 (2017) 014 (2017-07-05), arXiv: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, PLB 772 (2017) 336 (2017-09-10), arXiv:1702.06164 (2017-02-20).
- 613 – “Measurement of the cross section for electroweak production of $Z\gamma$ 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, PLB 770 (2017) 380 (2017-07-10), arXiv: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, EPJC 77 (2017) 269 (2017-04-27), arXiv: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, JHEP 07 (2017) 003 (2017-07-03), arXiv: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, PRL 119 (2017) 082301 (2017-08-23), arXiv: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, PLB 776 (2017) 195 (2018-01-10), arXiv: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, JHEP 08 (2017) 046 (2017-08-11), arXiv: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, PLB 772 (2017) 634 (2017-09-10), arXiv: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, JHEP 05 (2017) 029 (2017-05-05), arXiv: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, EPJC 77 (2017) 635 (2017-09-22), arXiv:1701.06940 (2017-01-24).
- 604 – “Measurement of the $t\bar{t}$ 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, JHEP 09 (2017) 051 (2017-09-13), arXiv: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, JHEP 03 (2017) 061 (2017-03-10), arXiv:1701.02042 (2017-01-08).
- 602 – “Mechanical stability of the CMS strip tracker measured with a laser alignment system”
CMS-TRK-15-002, JINST 12 (2017) P04023 (2017-04-21), arXiv: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, JHEP 10 (2017) 076 (2017-10-11), arXiv: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, PRD 96 (2017) 012004 (2017-07-25), arXiv: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, PLB 773 (2017) 563 (2017-10-10), arXiv:1701.01345 (2017-01-05).
- 598 – “Search for high-mass $Z\gamma$ resonances in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV using jet substructure techniques”
CMS-EXO-16-025, PLB 772 (2017) 363 (2017-09-10), arXiv:1612.09516 (2016-12-30).
- 597 – “Measurement of electroweak-induced production of $W\gamma$ with two jets in pp collisions at $\sqrt{s} = 8$ TeV and constraints on anomalous quartic gauge couplings”
CMS-SMP-14-011, JHEP 06 (2017) 106 (2017-06-20), arXiv: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, PLB 770 (2017) 278 (2017-07-10), arXiv: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, JHEP 03 (2017) 162 (2017-03-30), arXiv: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, PLB 772 (2017) 306 (2017-09-10), arXiv: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, JHEP 04 (2017) 136 (2017-04-21), arXiv: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, EPJC 77 (2017) 327 (2017-05-18), arXiv: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, JHEP 03 (2017) 077 (2017-03-14), arXiv: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, PLB 771 (2017) 80 (2017-08-10), arXiv:1612.00999 (2016-12-03).
- 589 – “Search for CP violation in $t\bar{t}$ production and decay in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-16-001, JHEP 03 (2017) 101 (2017-03-20), arXiv: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, PLB 769 (2017) 391 (2017-06-10), arXiv: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, JHEP 02 (2017) 048 (2017-02-09), arXiv: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, EPJC 77 (2017) 751 (2017-11-08), arXiv:1611.06507 (2016-11-20).
- 585 – “Measurement of the $t\bar{t}$ production cross section using events in the $e\mu$ final state in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-16-005, EPJC 77 (2017) 172 (2017-03-20), arXiv: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, JHEP 04 (2017) 022 (2017-04-05), arXiv: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, PLB 769 (2017) 520 (2017-06-10), arXiv:1611.03568 (2016-11-11).
- 582 – “Suppression of $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ quarkonium states in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”
CMS-HIN-15-001, PLB 770 (2017) 357 (2017-07-10), arXiv:1611.01510 (2016-11-04).
- 581 – “Relative modification of prompt $\psi(2S)$ and J/ψ yields from pp to PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV”
CMS-HIN-16-004, PRL 118 (2017) 162301 (2017-04-20), arXiv: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, JHEP 04 (2017) 039 (2017-04-07), arXiv: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, EPJC 77 (2017) 294 (2017-05-08), arXiv: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, PLB 770 (2017) 50 (2017-07-10), arXiv: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, JHEP 02 (2017) 135 (2017-02-28), arXiv: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, PLB 768 (2017) 137 (2017-05-10), arXiv:1610.08066 (2016-10-25).
- 575 – “Observation of $\Upsilon(1S)$ pair production in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-14-008, JHEP 05 (2017) 013 (2017-05-03), arXiv: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, PRD 95 (2017) 012009 (2017-01-25), arXiv: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, JHEP 04 (2017) 018 (2017-04-04), arXiv: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, JHEP 02 (2017) 079 (2017-02-15), arXiv: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, PRD 95 (2017) 052002 (2017-03-13), arXiv: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, PRD 95 (2017) 092001 (2017-05-01), arXiv: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, JHEP 02 (2017) 028 (2017-02-07), arXiv:1610.03545 (2016-10-11).
- 568 – “Search for high-mass $Z\gamma$ resonances in $e^+e^-\gamma$ and $\mu^+\mu^-\gamma$ final states in proton-proton collisions at $\sqrt{s} = 8$ and 13 TeV”
CMS-EXO-16-021, JHEP 01 (2017) 076 (2017-01-17), arXiv: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, EPJC 77 (2017) 252 (2017-04-19), arXiv: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, PLB 772 (2017) 752 (2017-09-10), arXiv: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, PRL 118 (2017) 122301 (2017-03-24), arXiv: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, PRD 95 (2017) 012011 (2017-01-27), arXiv: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, PRD 94 (2016) 112004 (2016-12-07), arXiv: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, PRD 95 (2017) 012003 (2017-01-06), arXiv: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, EPJC 77 (2017) 236 (2017-04-12), arXiv: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, PLB 768 (2017) 57 (2017-05-10), arXiv: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, PRC 96 (2017) 015202 (2017-07-17), arXiv: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, JHEP 03 (2017) 156 (2017-03-29), arXiv: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, PRD 94 (2016) 112005 (2016-12-08), arXiv: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, JHEP 11 (2016) 055 (2016-11-09), arXiv: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, PLB 767 (2017) 147 (2017-04-10), arXiv:1609.02507 (2016-09-08).
- 554 – “The CMS trigger system”
CMS-TRG-12-001, JINST 12 (2017) P01020 (2017-01-24), arXiv: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, PLB 771 (2017) 435 (2017-08-10), arXiv: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, EPJC 77 (2017) 92 (2017-02-11), arXiv: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, JHEP 12 (2016) 123 (2016-12-22), arXiv: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, PLB 770 (2017) 257 (2017-07-10), arXiv:1608.01224 (2016-08-03).
- 549 – “Measurement of the ZZ production cross section and $Z \rightarrow \ell^+ \ell^- \ell'^+ \ell'^-$ branching fraction in pp collisions at $\sqrt{s} = 13$ TeV”
CMS-SMP-16-001, PLB 763 (2016) 280 (2016-12-10), arXiv: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, JHEP 11 (2016) 147 (2016-11-24), arXiv: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, PLB 766 (2017) 268 (2017-03-10), arXiv: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, JHEP 12 (2016) 083 (2016-12-16), arXiv:1607.05764 (2016-07-20).
- 545 – “Search for lepton flavour violating decays of the Higgs boson to $e\tau$ and $e\mu$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-14-040, PLB 763 (2016) 472 (2016-12-10), arXiv: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, JINST 12 (2017) P02014 (2017-02-22), arXiv:1607.03663 (2016-07-13).
- 543 – “Observation of the decay $B^+ \rightarrow \psi(2S)\phi(1020)K^+$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-13-009, PLB 764 (2017) 66 (2017-01-10), arXiv: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, PRD 94 (2016) 052006 (2016-09-08), arXiv: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, JHEP 12 (2016) 013 (2016-12-05), arXiv: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, PRD 94 (2016) 112009 (2016-12-29), arXiv:1606.08076 (2016-06-26).
- 539 – “Evidence for collectivity in pp collisions at the LHC”
CMS-HIN-16-010, PLB 765 (2017) 193 (2017-02-10), arXiv: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, JHEP 02 (2017) 096 (2017-02-20), arXiv: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, PRL 117 (2016) 051802 (2016-07-28), arXiv: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, JHEP 10 (2016) 129 (2016-10-24), arXiv: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, JHEP 08 (2016) 045 (2016-08-05), arXiv: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, JHEP 03 (2017) 032 (2017-03-07), arXiv: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, PRL 118 (2017) 021802 (2017-01-12), arXiv: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, PLB 767 (2017) 403 (2017-04-10), arXiv: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, PLB 762 (2016) 512 (2016-11-10), arXiv: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, PLB 772 (2017) 489 (2017-09-10), arXiv: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, PLB 768 (2017) 103 (2017-05-10), arXiv: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, JHEP 08 (2016) 122 (2016-08-22), arXiv: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, EPJC 76 (2016) 451 (2016-08-11), arXiv: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, EPJC 76 (2016) 439 (2016-08-05), arXiv: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, JHEP 09 (2016) 051 (2016-09-09), arXiv: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, PRL 117 (2016) 031802 (2016-07-14), arXiv:1604.08907 (2016-04-30).
- 523 – “Measurement of the integrated and differential $t\bar{t}$ production cross sections for high- p_T top quarks in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-14-012, PRD 94 (2016) 072002 (2016-10-12), arXiv: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, PRC 96 (2017) 014915 (2017-07-31), arXiv:1604.05347 (2016-04-18).
- 521 – “Search for lepton flavour violating decays of heavy resonances and quantum black holes to an $e\mu$ pair in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-13-002, EPJC 76 (2016) 317 (2016-06-10), arXiv:1604.05239 (2016-04-16).
- 520 – “Evidence for exclusive $\gamma\gamma \rightarrow W^+W^-$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 7$ and 8 TeV”
CMS-FSQ-13-008, JHEP 08 (2016) 119 (2016-08-22), arXiv: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, PRD 94 (2016) 052012 (2016-09-29), arXiv: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, PRD 93 (2016) 092006 (2016-05-18), arXiv:1603.06536 (2016-03-21).
- 517 – “Measurements of $t\bar{t}$ charge asymmetry using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-15-009, PLB 760 (2016) 365 (2016-09-10), arXiv: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, JHEP 10 (2016) 006 (2016-10-03), arXiv: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, PLB 759 (2016) 369 (2016-08-10), arXiv:1603.02991 (2016-03-09).
- 514 – “ $\Upsilon(nS)$ polarizations versus particle multiplicity in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-HIN-15-003, PLB 761 (2016) 31 (2016-10-10), arXiv: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, JHEP 09 (2016) 027 (2016-09-06), arXiv:1603.02555 (2016-03-08).
- 512 – “Measurement of the $t\bar{t}$ production cross section in the $e\mu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV”
CMS-TOP-13-004, JHEP 08 (2016) 029 (2016-08-03), arXiv:1603.02303 (2016-03-07).
- 511 – “Search for heavy Majorana neutrinos in $e^\pm e^\pm +$ jets and $e^\pm \mu^\pm +$ jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-14-014, JHEP 04 (2016) 169 (2016-04-27), arXiv: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, EPJC 76 (2016) 469 (2016-08-22), arXiv: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, EPJC 76 (2016) 460 (2016-08-16), arXiv:1603.00765 (2016-03-02).
- 508 – “Measurements of the $t\bar{t}$ 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, EPJC 77 (2017) 15 (2017-01-07), arXiv: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, EPJC 76 (2016) 371 (2016-07-04), arXiv: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, PLB 759 (2016) 479 (2016-08-10), arXiv:1602.08772 (2016-02-28).
- 505 – “Measurement of the $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV and limits on anomalous $ZZ\gamma$ and $Z\gamma\gamma$ trilinear gauge boson couplings”
CMS-SMP-14-019, PLB 760 (2016) 448 (2016-09-10), arXiv: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, PLB 758 (2016) 152 (2016-07-10), arXiv:1602.06581 (2016-02-21).
- 503 – “Measurement of dijet azimuthal decorrelation in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-SMP-14-015, EPJC 76 (2016) 536 (2016-09-30), arXiv: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, PLB 760 (2016) 178 (2016-09-10), arXiv: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, PLB 759 (2016) 672 (2016-08-10), arXiv: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, JHEP 07 (2016) 027 (2016-07-05), arXiv: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, PRD 93 (2016) 092009 (2016-05-26), arXiv:1602.02917 (2016-02-09).
- 498 – “Search for massive WH resonances decaying into the $\ell\nu b\bar{b}$ final state at $\sqrt{s} = 8$ TeV”
CMS-EXO-14-010, EPJC 76 (2016) 237 (2016-04-28), arXiv: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, JHEP 08 (2016) 139 (2016-08-24), arXiv: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, EPJC 76 (2016) 325 (2016-06-14), arXiv: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, EPJC 76 (2016) 372 (2016-07-04), arXiv:1601.02001 (2016-01-08).
- 494 – “Measurements of $t\bar{t}$ spin correlations and top quark polarization using dilepton final states in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-14-023, PRD 93 (2016) 052007 (2016-03-09), arXiv: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, JHEP 02 (2016) 156 (2016-02-23), arXiv: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, JHEP 04 (2016) 005 (2016-04-01), arXiv: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, PLB 759 (2016) 9 (2016-08-10), arXiv: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, PLB 759 (2016) 36 (2016-08-10), arXiv: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, EPJC 76 (2016) 265 (2016-05-12), arXiv: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, PRL 116 (2016) 071801 (2016-02-18), arXiv:1512.01224 (2015-12-03).
- 487 – “Event generator tunes obtained from underlying event and multiparton scattering measurements”
CMS-GEN-14-001, EPJC 76 (2016) 155 (2016-03-17), arXiv: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, PRD 93 (2016) 052011 (2016-03-22), arXiv:1511.09375 (2015-11-30).
- 485 – “Measurement of spin correlations in $t\bar{t}$ production using the matrix element method in the muon+jets final state in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-13-015, PLB 758 (2016) 321 (2016-07-10), arXiv: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, JHEP 04 (2016) 035 (2016-04-06), arXiv:1511.03951 (2015-11-12).
- 483 – “Search for a low-mass pseudoscalar Higgs boson produced in association with a $b\bar{b}$ pair in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-14-033, PLB 758 (2016) 296 (2016-07-10), arXiv:1511.03610 (2015-11-11).
- 482 – “Measurement of top quark polarisation in t -channel single top quark production”
CMS-TOP-13-001, JHEP 04 (2016) 073 (2016-04-13), arXiv:1511.02138 (2015-11-06).
- 481 – “Search for excited leptons in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-14-015, JHEP 03 (2016) 125 (2016-03-17), arXiv:1511.01407 (2015-11-04).
- 480 – “Reconstruction and identification of τ lepton decays to hadrons and ν_τ at CMS”
CMS-TAU-14-001, JINST 11 (2016) P01019 (2016-01-29), arXiv: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, JHEP 01 (2016) 079 (2016-01-13), arXiv:1510.06534 (2015-10-22).
- 478 – “Measurement of the top quark pair production cross section in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-TOP-15-003, PRL 116 (2016) 052002 (2016-02-05), arXiv:1510.05302 (2015-10-18).

- 477 – “Search for a light charged Higgs boson decaying to $c\bar{s}$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-13-035, JHEP 12 (2015) 1 (2015-12-29), arXiv: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, PLB 754 (2016) 59 (2016-03-10), arXiv:1510.03373 (2015-10-12).
- 475 – “Measurement of $t\bar{t}$ 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, EPJC 76 (2016) 379 (2016-07-07), arXiv: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, PRL 116 (2016) 172302 (2016-04-27), arXiv: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 $h \rightarrow \tau\tau$ ”
CMS-HIG-14-034, PLB 755 (2016) 217 (2016-04-10), arXiv: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, JHEP 01 (2016) 096 (2016-01-18), arXiv: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, JHEP 01 (2016) 006 (2016-01-04), arXiv: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, JHEP 06 (2016) 177 (2016-06-30), arXiv: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, JHEP 01 (2016) 166 (2016-01-27), arXiv:1509.08141 (2015-09-27).
- 468 – “Measurement of the $t\bar{t}$ production cross section in the all-jets final state in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-14-018, EPJC 76 (2016) 128 (2016-03-08), arXiv:1509.06076 (2015-09-21).
- 467 – “Search for $W' \rightarrow tb$ in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-B2G-12-009, JHEP 02 (2016) 122 (2016-02-18), arXiv: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, PRD 93 (2016) 012003 (2016-01-19), arXiv: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, JHEP 12 (2016) 088 (2016-12-19), arXiv: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, PRD 93 (2016) 072004 (2016-04-07), arXiv: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, PLB 759 (2016) 641 (2016-08-10), arXiv: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, PRD 93 (2016) 032005 (2016-02-24), arXiv: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, PRD 93 (2016) 032004 (2016-02-24), arXiv:1509.03744 (2015-09-12).
- 460 – “Search for a charged Higgs boson in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-14-023, JHEP 11 (2015) 018 (2015-11-04), arXiv: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, JHEP 11 (2015) 189 (2015-11-27), arXiv: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, EPJC 76 (2016) 13 (2016-01-11), arXiv: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, PRL 116 (2016) 032301 (2016-01-22), arXiv: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, PLB 755 (2016) 196 (2016-04-10), arXiv: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, PRD 93 (2016) 034014 (2016-02-18), arXiv:1508.03862 (2015-08-16).
- 454 – “Search for neutral MSSM Higgs bosons decaying to $\mu^+\mu^-$ in pp collisions at $\sqrt{s} = 7$ and 8 TeV”
CMS-HIG-13-024, PLB 752 (2016) 221 (2016-01-10), arXiv: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, PLB 757 (2016) 6 (2016-06-10), arXiv:1508.01218 (2015-08-05).
- 452 – “Angular analysis of the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$ from pp collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-13-010, PLB 753 (2016) 424 (2016-02-10), arXiv:1507.08126 (2015-07-29).
- 451 – “Measurement of the CP-violating weak phase ϕ_s and the decay width difference $\Delta\Gamma_s$ using the $B_s^0 \rightarrow J/\psi\phi(1020)$ decay channel in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-13-012, PLB 757 (2016) 97 (2016-06-10), arXiv: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, JHEP 09 (2015) 137 (2015-09-21), arXiv: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, PRD 93 (2016) 112009 (2016-06-15), arXiv: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, PRD 92 (2015) 072010 (2015-10-22), arXiv:1507.06656 (2015-07-23).
- 447 – “Pseudorapidity distribution of charged hadrons in proton-proton collisions at $\sqrt{s} = 13$ TeV”
CMS-FSQ-15-001, PLB 751 (2015) 143 (2015-12-17), arXiv: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, EPJC 76 (2016) 401 (2016-07-15), arXiv:1507.03268 (2015-07-13).
- 445 – “Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-12-033, PLB 757 (2016) 154 (2016-06-10), arXiv:1507.03119 (2015-07-11).
- 444 – “Search for a Higgs boson decaying into $\gamma^*\gamma \rightarrow \ell\ell\gamma$ with low dilepton mass in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-HIG-14-003, PLB 753 (2016) 341 (2016-02-10), arXiv:1507.03031 (2015-07-10).
- 443 – “Search for supersymmetry with photons in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-SUS-14-004, PRD 92 (2015) 072006 (2015-10-19), arXiv:1507.02898 (2015-07-10).
- 442 – “Search for exotic decays of a Higgs boson into undetectable particles and photons”
CMS-HIG-14-025, PLB 753 (2016) 363 (2016-02-10), arXiv: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, PRD 92 (2015) 112001 (2015-12-01), arXiv:1507.00233 (2015-06-30).
- 440 – “Search for neutral MSSM Higgs bosons decaying into a pair of bottom quarks”
CMS-HIG-14-017, JHEP 11 (2015) 071 (2015-11-11), arXiv:1506.08329 (2015-06-28).
- 439 – “Search for resonant $t\bar{t}$ production in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-B2G-13-008, PRD 93 (2016) 012001 (2016-01-08), arXiv: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, PLB 750 (2015) 494 (2015-09-26), arXiv: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, JHEP 02 (2016) 145 (2016-02-22), arXiv:1506.01443 (2015-06-04).
- 436 – “Search for the standard model Higgs boson produced through vector boson fusion and decaying to $b\bar{b}$ ”
CMS-HIG-14-004, PRD 92 (2015) 032008 (2015-08-27), arXiv:1506.01010 (2015-06-02).
- 435 – “A search for pair production of new light bosons decaying into muons”
CMS-HIG-13-010, PLB 752 (2016) 146 (2016-01-10), arXiv: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, JHEP 09 (2015) 201 (2015-09-29), arXiv:1505.08118 (2015-05-29).
- 433 – “Comparison of the $Z/\gamma^* + \text{jets}$ to $\gamma + \text{jets}$ cross sections in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-SMP-14-005, JHEP 10 (2015) 128 (2015-10-20), arXiv: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, EPJC 75 (2015) 542 (2015-11-20), arXiv:1505.04480 (2015-05-17).
- 431 – “Search for a pseudoscalar boson decaying into a Z boson and the 125 GeV Higgs boson in $\ell^+ \ell^- b\bar{b}$ final states”
CMS-HIG-14-011, PLB 748 (2015) 221 (2015-07-09), arXiv:1504.04710 (2015-04-19).
- 430 – “Angular coefficients of Z bosons produced in pp collisions at $\sqrt{s} = 8$ TeV and decaying to $\mu^+ \mu^-$ as a function of transverse momentum and rapidity”
CMS-SMP-13-010, PLB 750 (2015) 154 (2015-09-01), arXiv: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, PLB 749 (2015) 187 (2015-07-29), arXiv: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, JHEP 06 (2015) 121 (2015-06-17), arXiv: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, JHEP 10 (2015) 144 (2015-10-22), arXiv:1504.00936 (2015-04-04).
- 426 – “Search for third-generation scalar leptoquarks in the $t\tau$ channel in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-14-008, JHEP 07 (2015) 042 (2015-07-09), arXiv:1503.09049 (2015-03-31).
- 425 – “Measurement of diffractive dissociation cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-FSQ-12-005, PRD 92 (2015) 012003 (2015-07-06), arXiv: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, JHEP 06 (2015) 116 (2015-06-17), arXiv: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, PRL 114 (2015) 191803 (2015-05-14), arXiv: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, PLB 750 (2015) 565 (2015-09-25), arXiv:1503.05825 (2015-03-20).
- 421 – “Measurements of the ZZ production cross sections in the $2\ell 2\nu$ channel in proton-proton collisions at $\sqrt{s} = 7$ and 8 TeV and combined constraints on triple gauge couplings”
CMS-SMP-12-016, EPJC 75 (2015) 511 (2015-10-29), arXiv: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, PLB 749 (2015) 560 (2015-08-22), arXiv: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, JHEP 06 (2015) 080 (2015-06-12), arXiv: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, PRC 92 (2015) 034911 (2015-09-22), arXiv: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, PRD 91 (2015) 092012 (2015-05-29), arXiv:1502.07940 (2015-02-27).
- 416 – “Search for lepton-flavour-violating decays of the Higgs boson”
CMS-HIG-14-005, PLB 749 (2015) 337 (2015-10-07), arXiv: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, JHEP 04 (2015) 124 (2015-04-22), arXiv:1502.06031 (2015-02-21).
- 414 – “Measurement of the $Z\gamma$ production cross section in pp collisions at 8 TeV and search for anomalous triple gauge boson couplings”
CMS-SMP-13-014, JHEP 04 (2015) 164 (2015-04-29), arXiv: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, EPJC 75 (2015) 237 (2015-05-29), arXiv:1502.05387 (2015-02-19).
- 412 – “Evidence for collective multi-particle correlations in pPb collisions”
CMS-HIN-14-006, PRL 115 (2015) 012301 (2015-06-29), arXiv: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, PLB 748 (2015) 255 (2015-07-09), arXiv: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, EPJC 75 (2015) 302 (2015-07-01), arXiv: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, JHEP 05 (2015) 078 (2015-05-15), arXiv:1502.04358 (2015-02-15).
- 408 – “Measurement of J/ψ and $\psi(2S)$ prompt double-differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-14-001, PRL 114 (2015) 191802 (2015-05-14), arXiv: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, JINST 10 (2015) P08010 (2015-08-18), arXiv: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, JINST 10 (2015) P06005 (2015-06-10), arXiv: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, EPJC 75 (2015) 325 (2015-07-17), arXiv: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, EPJC 75 (2015) 251 (2015-06-09), arXiv: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, PRD 91 (2015) 052018 (2015-03-23), arXiv:1502.00300 (2015-02-01).

- 402 – “Measurements of the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ differential cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-12-006, PLB 749 (2015) 14 (2015-07-18), arXiv:1501.07750 (2015-01-30).
- 401 – “Measurement of the ratio $\mathcal{B}(B_s^0 \rightarrow J/\psi f_0(980))/\mathcal{B}(B_s^0 \rightarrow J/\psi \phi(1020))$ in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-14-002, PLB 756 (2016) 84 (2016-05-10), arXiv: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, EPJC 75 (2015) 151 (2015-04-11), arXiv:1501.05603 (2015-01-22).
- 399 – “Search for heavy Majorana neutrinos in $\mu^\pm\mu^\pm$ +jets events in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-12-057, PLB 748 (2015) 144 (2015-06-30), arXiv: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, PRD 91 (2015) 052009 (2015-03-12), arXiv: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, EPJC 75 (2015) 212 (2015-05-14), arXiv: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, PLB 747 (2015) 98 (2015-07-30), arXiv: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, JHEP 04 (2015) 025 (2015-04-07), arXiv: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, PLB 745 (2015) 5 (2015-04-13), arXiv: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, EPJC 75 (2015) 186 (2015-05-01), arXiv: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, EPJC 75 (2015) 147 (2015-04-09), arXiv: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, PLB 743 (2015) 503 (2015-04-09), arXiv: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, PRD 91 (2015) 052012 (2015-03-18), arXiv: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, PRD 91 (2015) 012007 (2015-01-20), arXiv:1411.6530 (2014-11-25).
- 388 – “Search for disappearing tracks in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-12-034, JHEP 01 (2015) 096 (2015-01-19), arXiv:1411.6006 (2014-11-21).
- 387 – “Measurement of the cross section ratio $\sigma_{t\bar{t}b\bar{b}}/\sigma_{t\bar{t}j\bar{j}}$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-13-010, PLB 746 (2015) 132 (2015-04-30), arXiv:1411.5621 (2014-11-20).
- 386 – “Observation of the rare $B_s^0 \rightarrow \mu^+\mu^-$ decay from the combined analysis of CMS and LHCb data”
CMS-BPH-13-007, Nature 522 (2015) 68 (2015-05-13), arXiv: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, PRD 92 (2015) 012004 (2015-07-13), arXiv: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, PLB 746 (2015) 79 (2015-04-24), arXiv: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, JINST 10 (2015) P02006 (2015-02-12), arXiv: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, PLB 755 (2016) 102 (2016-04-10), arXiv: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, EPJC 75 (2015) 288 (2015-06-26), arXiv:1410.6765 (2014-10-25).
- 380 – “Search for a standard model-like Higgs boson in the $\mu^+\mu^-$ and e^+e^- decay channels at the LHC”
CMS-HIG-13-007, PLB 744 (2015) 184 (2015-05-11), arXiv: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, PRL 114 (2015) 051801 (2015-02-02), arXiv:1410.6315 (2014-10-23).
- 378 – “Measurement of the ratio $\mathcal{B}(B_c^+ \rightarrow J/\psi \pi^+ \pi^+ \pi^-)/\mathcal{B}(B_c^+ \rightarrow J/\psi \pi^+)$ and the production cross sections times branching fractions of $B_c^+ \rightarrow J/\psi \pi^+$ and $B^+ \rightarrow J/\psi K^+$ in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-12-011, JHEP 01 (2015) 063 (2015-01-13), arXiv: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, JHEP 03 (2015) 022 (2015-03-04), arXiv:1410.4825 (2014-10-17).
- 376 – “Identification techniques for highly boosted W bosons that decay into hadrons”
CMS-JME-13-006, JHEP 12 (2014) 017 (2014-12-02), arXiv: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, EPJC 75 (2015) 66 (2015-02-10), arXiv: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, PRD 90 (2014) 112013 (2014-12-23), arXiv:1410.2751 (2014-10-10).
- 373 – “Measurement of prompt $\psi(2S)$ to J/ψ yield ratios in PbPb and pp collisions at $\sqrt{s_{NN}} = 2.76$ TeV”
CMS-HIN-12-007, PRL 113 (2014) 262301 (2014-12-31), arXiv: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, JHEP 01 (2015) 053 (2015-01-12), arXiv:1410.1154 (2014-10-05).
- 371 – “Search for monotop signatures in proton-proton collisions at $\sqrt{s} = 8$ TeV”
CMS-B2G-12-022, PRL 114 (2015) 101801 (2015-03-10), arXiv: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, JHEP 11 (2014) 154 (2014-11-27), arXiv:1409.7339 (2014-09-26).
- 369 – “Measurement of the production cross section ratio $\sigma(\chi_{b2}(1P))/\sigma(\chi_{b1}(1P))$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-13-005, PLB 743 (2015) 383 (2015-04-09), arXiv: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, PRL 114 (2015) 061801 (2015-02-13), arXiv: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, PLB 742 (2015) 200 (2015-03-06), arXiv: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, PRD 90 (2014) 092007 (2014-11-21), arXiv: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, EPJC 75 (2015) 235 (2015-05-29), arXiv: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, JHEP 10 (2014) 160 (2014-10-28), arXiv: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, PRD 91 (2015) 052008 (2015-03-11), arXiv: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, PRD 91 (2015) 092005 (2015-05-22), arXiv:1408.2745 (2014-08-13).
- 361 – “Search for the associated production of the Higgs boson with a top-quark pair”
CMS-HIG-13-029, JHEP 09 (2014) 087 (2014-09-16), arXiv: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, PLB 739 (2014) 229 (2014-12-12), arXiv:1408.0806 (2014-08-04).
- 359 – “Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 8$ TeV in dilepton final states containing one τ lepton”
CMS-TOP-12-026, PLB 739 (2014) 23 (2014-12-12), arXiv: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, EPJC 74 (2014) 3149 (2014-11-26), arXiv: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, PLB 740 (2015) 83 (2014-11-14), arXiv: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, JHEP 10 (2014) 087 (2014-10-14), arXiv:1407.2856 (2014-07-11).
- 355 – “Observation of the diphoton decay of the Higgs boson and measurement of its properties”
CMS-HIG-13-001, EPJC 74 (2014) 3076 (2014-10-15), arXiv: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, EPJC 74 (2014) 3060 (2014-09-17), arXiv: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, PLB 741 (2015) 12 (2015-02-04), arXiv: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, PLB 738 (2014) 274 (2014-11-10), arXiv: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, PRC 90 (2014) 024908 (2014-08-18), arXiv: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, JHEP 09 (2014) 094 (2014-09-17), arXiv: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, PRD 90 (2014) 072006 (2014-10-16), arXiv: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, PLB 740 (2015) 250 (2014-11-30), arXiv: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, PRD 90 (2014) 032005 (2014-08-18), arXiv: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, EPJC 74 (2014) 3036 (2014-09-26), arXiv: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, EPJC 74 (2014) 3129 (2014-11-12), arXiv:1405.7225 (2014-05-28).
- 344 – “Description and performance of track and primary-vertex reconstruction with the CMS tracker”
CMS-TRK-11-001, JINST 9 (2014) P10009 (2014-10-16), arXiv:1405.6569 (2014-05-26).
- 343 – “Search for supersymmetry with razor variables in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-SUS-12-005, PRD 90 (2014) 112001 (2014-12-01), arXiv: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, PLB 736 (2014) 371 (2014-09-07), arXiv: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, JHEP 08 (2014) 174 (2014-08-29), arXiv: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, PLB 736 (2014) 64 (2014-09-07), arXiv: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, JHEP 08 (2014) 173 (2014-08-29), arXiv: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, EPJC 74 (2014) 3053 (2014-10-29), arXiv: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, PRD 90 (2014) 032006 (2014-08-20), arXiv:1404.5801 (2014-04-23).
- 336 – “A search for $WW\gamma$ and $WZ\gamma$ production and constraints on anomalous quartic gauge couplings in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-SMP-13-009, PRD 90 (2014) 032008 (2014-08-25), arXiv:1404.4619 (2014-04-17).
- 335 – “Measurement of jet multiplicity distributions in $t\bar{t}$ production in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-12-018, EPJC 74 (2014) 3014 [Corr EPJC 75 (2015) 216] (2014-08-20), arXiv:1404.3171 (2014-04-12).
- 334 – “Measurement of the ratio $B(t \rightarrow Wb)/B(t \rightarrow Wq)$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-12-035, PLB 736 (2014) 33 (2014-09-07), arXiv: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, EPJC 74 (2014) 2980 (2014-08-13), arXiv:1404.1344 (2014-04-05).
- 332 – “Measurement of the t -channel single-top-quark production cross section and of the $|V_{tb}|$ CKM matrix element in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-12-038, JHEP 06 (2014) 090 (2014-06-16), arXiv: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, EPJC 74 (2014) 2973 (2014-08-07), arXiv:1403.3047 (2014-03-12).
- 330 – “Alignment of the CMS tracker with LHC and cosmic ray data”
CMS-TRK-11-002, JINST 9 (2014) P06009 (2014-06-06), arXiv: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, JHEP 06 (2014) 055 (2014-06-10), arXiv:1402.4770 (2014-02-19).
- 328 – “Measurements of the $t\bar{t}$ charge asymmetry using the dilepton decay channel in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-12-010, JHEP 04 (2014) 191 (2014-04-30), arXiv:1402.3803 (2014-02-16).
- 327 – “Search for $W' \rightarrow t\bar{b}$ decays in the lepton + jets final state in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-B2G-12-010, JHEP 05 (2014) 108 (2014-05-23), arXiv: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, JHEP 06 (2014) 120 (2014-06-12), arXiv: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, PRL 112 (2014) 191802 (2014-05-14), arXiv:1402.0923 (2014-02-05).
- 324 – “Evidence for the direct decay of the 125 GeV Higgs boson to fermions”
CMS-HIG-13-033, NP 10 (2014) 557-560 (2014-06-22), arXiv:1401.6527 (2014-01-24).
- 323 – “Evidence for the 125 GeV Higgs boson decaying to a pair of τ leptons”
CMS-HIG-13-004, JHEP 05 (2014) 104 (2014-05-22), arXiv: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, EPJC 74 (2014) 2951 (2014-07-23), arXiv: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, PRL 112 (2014) 231802 (2014-06-09), arXiv:1401.2942 (2014-01-13).
- 320 – “Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-TOP-12-007, JHEP 02 (2014) 024 (2014-02-05), arXiv: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, PLB 735 (2014) 204 (2014-07-30), arXiv:1312.6608 (2013-12-23).
- 318 – “Measurement of four-jet production in proton-proton collisions at $\sqrt{s} = 7$ TeV”
CMS-FSQ-12-013, PRD 89 (2014) 092010 (2014-05-28), arXiv: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, PRD 90 (2014) 032004 (2014-08-13), arXiv: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, JHEP 04 (2014) 103 (2014-04-15), arXiv: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, JHEP 03 (2014) 032 (2014-03-05), arXiv:1312.5729 (2013-12-19).
- 314 – “Measurement of the properties of a Higgs boson in the four-lepton final state”
CMS-HIG-13-002, PRD 89 (2014) 092007 (2014-05-14), arXiv: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, PRL 113 (2014) 132301 (2014-09-22), arXiv: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, PRL 112 (2014) 171802 (2014-05-02), arXiv:1312.4194 (2013-12-15).
- 311 – “Search for stop and higgsino production using diphoton Higgs boson decays”
CMS-SUS-13-014, PRL 112 (2014) 161802 (2014-04-25), arXiv: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, PRL 112 (2014) 171801 (2014-04-30), arXiv: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, JHEP 02 (2014) 088 (2014-02-20), arXiv: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, JHEP 01 (2014) 096 (2014-01-17), arXiv: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, PLB 729 (2014) 149 (2014-02-05), arXiv: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, JHEP 01 (2014) 163 (2014-01-29), arXiv: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, JHEP 06 (2014) 009 (2014-06-03), arXiv:1311.6141 (2013-11-24).
- 304 – “Probing color coherence effects in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-SMP-12-010, EPJC 74 (2014) 2901 (2014-06-11), arXiv:1311.5815 (2013-11-23).
- 303 – “Search for pair production of excited top quarks in the lepton+jets final state”
CMS-B2G-12-014, JHEP 06 (2014) 125 (2014-06-19), arXiv: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, PLB 733 (2014) 328-353 (2014-06-02), arXiv:1311.4937 (2013-11-20).
- 301 – “Measurements of $t\bar{t}$ spin correlations and top-quark polarization using dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-13-003, PRL 112 (2014) 182001 (2014-05-05), arXiv: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, PLB 730 (2014) 193 (2014-03-07), arXiv: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, PRC 89 (2014) 044906 (2014-04-11), arXiv: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, JHEP 12 (2013) 030 (2013-12-04), arXiv: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, EPJC 73 (2013) 2674 (2013-12-11), arXiv: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, PRD 89 (2014) 012003 (2014-01-21), arXiv: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, PRD 88 (2013) 112009 (2013-12-23), arXiv:1310.3082 (2013-10-11).
- 294 – “Search for baryon number violation in top quark decays”
CMS-B2G-12-023, PLB 731 (2014) 173 (2014-04-04), arXiv:1310.1618 (2013-10-06).
- 293 – “Measurement of associated W + charm production in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-SMP-12-002, JHEP 02 (2014) 013 (2014-02-04), arXiv: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, JHEP 12 (2013) 039 (2013-12-06), arXiv:1310.1349 (2013-10-04).
- 291 – “Modification of jet shapes in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”
CMS-HIN-12-002, PLB 730 (2014) 243 (2014-03-07), arXiv:1310.0878 (2013-10-02).

- 290 – “Observation of a peaking structure in the $J/\psi\phi$ mass spectrum from $B^\pm \rightarrow J/\psi\phi K^\pm$ decays”
CMS-BPH-11-026, PLB 734 (2014) 261-281 (2014-06-27), arXiv:1309.6920 (2013-09-26).
- 289 – “Searches for new physics using the $t\bar{t}$ invariant mass distribution in pp collisions at $\sqrt{s}=8$ TeV”
CMS-B2G-13-001, PRL 111 (2013) 211804 (2013-11-22), arXiv:1309.2030 (2013-09-09).
- 288 – “Measurement of the production cross section for $Z\gamma \rightarrow \nu\bar{\nu}\gamma$ in pp collisions at $\sqrt{s} = 7$ TeV and limits on $ZZ\gamma$ and $Z\gamma\gamma$ triple gauge boson couplings”
CMS-SMP-12-020, JHEP 10 (2013) 164 (2013-10-24), arXiv:1309.1117 (2013-09-04).
- 287 – “Search for a new bottomonium state decaying to $\Upsilon(1S)\pi^+\pi^-$ in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-BPH-11-016, PLB 727 (2013) 57 (2013-11-25), arXiv:1309.0250 (2013-09-01).
- 286 – “Measurement of the $W\gamma$ and $Z\gamma$ inclusive cross sections in pp collisions at $\sqrt{s} = 7$ TeV and limits on anomalous triple gauge boson couplings”
CMS-EWK-11-009, PRD 89 (2014) 092005 (2014-05-13), arXiv:1308.6832 (2013-09-01).
- 285 – “Measurement of the W-boson helicity in top-quark decays from $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-020, JHEP 10 (2013) 167 (2013-10-24), arXiv:1308.3879 (2013-08-19).
- 284 – “Angular analysis and branching fraction measurement of the decay $B^0 \rightarrow K^{*0}\mu^+\mu^-$ ”
CMS-BPH-11-009, PLB 727 (2013) 77-100 (2013-11-25), arXiv: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, EPJC 73 (2013) 2677 (2013-12-21), arXiv:1308.1586 (2013-08-07).
- 282 – “Measurement of the prompt J/ψ and $\psi(2S)$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-13-003, PLB 727 (2013) 381 (2013-10-29), arXiv: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, PLB 726 (2013) 587 (2013-11-04), arXiv:1307.5515 (2013-07-21).
- 280 – “Measurement of the $B_s^0 \rightarrow \mu^+\mu^-$ branching fraction and search for $B^0 \rightarrow \mu^+\mu^-$ with the CMS Experiment”
CMS-BPH-13-004, PRL 111 (2013) 101804 (2013-09-05), arXiv:1307.5025 (2013-07-19).
- 279 – “Measurement of the top-quark mass in all-jets $t\bar{t}$ events in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-017, EPJC 74 (2014) 2758 (2014-04-04), arXiv: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, EPJC 74 (2014) 2847 (2014-06-03), arXiv:1307.3442 (2013-07-12).
- 277 – “Determination of the top-quark pole mass and strong coupling constant from the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-12-022, PLB 728 (2014) 496 (2014-01-20), arXiv: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, JINST 8 (2013) P11002 (2013-11-04), arXiv: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, PRL 111 (2013) 221801 (2013-11-25), arXiv: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, JINST 8 (2013) P09009 (2013-09-19), arXiv: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 $WW\gamma$ and WWZ couplings”
CMS-SMP-12-005, EPJC 73 (2013) 2610 (2013-10-26), arXiv: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, JHEP 10 (2013) 062 (2013-10-10), arXiv: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, PRD 88 (2013) 052001 (2013-09-03), arXiv: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, JHEP 07 (2013) 116 (2013-07-18), arXiv: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, PLB 725 (2013) 243 (2013-10-01), arXiv: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, PLB 724 (2013) 213 (2013-07-23), arXiv: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, JHEP 07 (2013) 122 (2013-07-19), arXiv: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, EPJC 73 (2013) 2604 (2013-10-19), arXiv: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, JHEP 07 (2013) 163 (2013-07-26), arXiv:1304.7495 (2013-04-28).
- 264 – “Measurement of masses in the $t\bar{t}$ system by kinematic endpoints in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-027, EPJC 73 (2013) 2494 (2013-06-18), arXiv: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, EPJC 73 (2013) 2469 (2013-06-14), arXiv:1304.0213 (2013-03-31).
- 262 – “Measurement of the $\Upsilon(1S)$, $\Upsilon(2S)$, and $\Upsilon(3S)$ cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-11-001, PLB 727 (2013) 101 (2013-11-25), arXiv:1303.5900 (2013-03-24).
- 261 – “Search for microscopic black holes in pp collisions at $\sqrt{s} = 8$ TeV”
CMS-EXO-12-009, JHEP 07 (2013) 178 (2013-07-29), arXiv: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, Science 338 (2012) 1569 (2012-12-21).
- 259 – “Studies of jet mass in dijet and W/Z+jet events”
CMS-SMP-12-019, JHEP 05 (2013) 090 (2013-05-17), arXiv: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, JHEP 06 (2013) 081 (2013-06-20), arXiv:1303.4571 (2013-03-19).
- 257 – “Measurement of associated production of vector bosons and $t\bar{t}$ at $\sqrt{s} = 7$ TeV”
CMS-TOP-12-014, PRL 110 (2013) 172002 (2013-04-25), arXiv: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, EPJC 73 (2013) 2568 (2013-09-18), arXiv: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, JHEP 05 (2013) 145 (2013-05-28), arXiv: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, PRD 87 (2013) 114015 (2013-06-17), arXiv:1302.4794 (2013-02-20).
- 253 – “Measurement of the X(3872) production cross section via decays to $J/\psi\pi^+\pi^-$ in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-11-011, JHEP 04 (2013) 154 (2013-04-29), arXiv: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, PLB 722 (2013) 207-232 (2013-05-24), arXiv: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, PRD 87 (2013) 072005 (2013-04-08), arXiv: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, JHEP 04 (2013) 072 (2013-04-11), arXiv: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, PLB 725 (2013) 36-59 (2013-08-09), arXiv:1302.1764 (2013-02-08).
- 248 – “Measurement of the $t\bar{t}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-007, JHEP 05 (2013) 065 (2013-05-14), arXiv: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, PRL 110 (2013) 141802 (2013-04-04), arXiv:1302.0531 (2013-02-03).
- 246 – “Measurement of the $t\bar{t}$ production cross section in the τ +jets channel in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-004, EPJC 73 (2013) 2386 (2013-04-12), arXiv: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, PRD 87 (2013) 052017 (2013-03-26), arXiv: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, PLB 721 (2013) 190 (2013-04-25), arXiv: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, EPJC 73 (2013) 2493 (2013-06-11), arXiv:1301.3792 (2013-01-17).
- 242 – “Interpretation of searches for supersymmetry with simplified models”
CMS-SUS-11-016, PRD 88 (2013) 052017 (2013-09-23), arXiv: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, PRL 111 (2013) 081802 (2013-08-23), arXiv: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, PLB 722 (2013) 238 (2013-05-24), arXiv: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, PRD 87 (2013) 072001 (2013-04-02), arXiv:1301.0916 (2013-01-05).
- 238 – “Measurement of the $t\bar{t}$ production cross section in pp collisions at $\sqrt{s} = 7$ TeV with lepton + jets final states”
CMS-TOP-11-003, PLB 720 (2013) 83 (2013-03-13), arXiv: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, PRD 87 (2013) 112002 (2013-06-03), arXiv: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, PRL 110 (2013) 081803 (2013-02-21), arXiv: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, EPJC 73 (2013) 2404 (2013-05-08), arXiv: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, JHEP 03 (2013) 037 (2013-03-06), arXiv: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, PLB 720 (2013) 63 (2013-03-13), arXiv:1212.6175 (2012-12-24).
- 232 – “Search for contact interactions in $\mu^+\mu^-$ events in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-009, PRD 87 (2013) 032001 (2013-02-01), arXiv: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, PLB 723 (2013) 280 (2013-06-25), arXiv: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, PLB 722 (2013) 273 (2013-05-24), arXiv: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, JHEP 02 (2013) 036 (2013-02-07), arXiv:1211.5779 (2012-11-25).
- 228 – “Measurement of the ZZ production cross section and search for anomalous couplings in $2\ell 2\ell'$ final states in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-SMP-12-007, JHEP 01 (2013) 063 (2013-01-09), arXiv: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, JHEP 03 (2013) 111 (2013-03-19), arXiv:1211.4784 (2012-11-20).
- 226 – “Identification of b-quark jets with the CMS experiment”
CMS-BTV-12-001, JINST 8 (2013) P04013 (2013-04-13), arXiv:1211.4462 (2012-11-19).
- 225 – “Search for Z' resonances decaying to $t\bar{t}$ in dilepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-010, PRD 87 (2013) 072002 (2013-04-03), arXiv: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, PRD 87 (2013) 052006 (2013-03-05), arXiv:1211.3143 (2012-11-14).
- 223 – “Search in leptonic channels for heavy resonances decaying to long-lived neutral particles”
CMS-EXO-11-101, JHEP 02 (2013) 085 (2013-02-14), arXiv:1211.2472 (2012-11-12).
- 222 – “Measurement of differential top-quark pair production cross sections in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-013, EPJC 73 (2013) 2339 (2013-03-19), arXiv: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, JHEP 01 (2013) 077 (2013-01-10), arXiv: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, EPJC 73 (2013) 2283 (2013-02-08), arXiv: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, JHEP 01 (2013) 154 (2013-01-24), arXiv: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, PLB 726 (2013) 564 (2013-11-04), arXiv:1210.7619 (2012-10-27).
- 217 – “Measurement of the inelastic proton-proton cross section at $\sqrt{s} = 7$ TeV”
CMS-FWD-11-001, PLB 722 (2013) 5-27 (2013-07-16), arXiv: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, PRL 110 (2013) 081801 (2013-02-20), arXiv: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, JHEP 12 (2012) 055 (2012-12-11), arXiv:1210.5627 (2012-10-23).
- 214 – “Observation of long-range, near-side angular correlations in pPb collisions at the LHC”
CMS-HIN-12-015, PLB 718 (2013) 795-814 (2013-01-08), arXiv:1210.5482 (2012-10-19).

- 213 – “Observation of Z decays to four leptons with the CMS detector at the LHC”
CMS-SMP-12-009, JHEP 12 (2012) 034 (2012-12-07), arXiv:1210.3844 (2012-10-15).
- 212 – “Search for fractionally charged particles in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-074, PRD 87 (2013) 092008 (2013-05-21), arXiv: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, PRL 109 (2012) 261802 (2012-12-27), arXiv: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, JHEP 01 (2013) 013 (2013-01-02), arXiv:1210.2387 (2012-10-08).
- 209 – “Search for excited leptons in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-034, PLB 720 (2013) 309-329 (2013-03-26), arXiv: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, PLB 719 (2013) 42-61 (2013-02-12), arXiv: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, PLB 718 (2012) 348-368 (2012-12-05), arXiv: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, EPJC 72 (2012) 2251 (2012-12-14), arXiv:1210.0875 (2012-10-03).
- 205 – “Search for anomalous production of highly boosted Z bosons decaying to $\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-025, PLB 722 (2013) 28-47 (2013-07-16), arXiv: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, JHEP 11 (2012) 147 (2012-11-27), arXiv: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, JHEP 12 (2012) 035 (2012-11-07), arXiv:1209.4533 (2012-09-20).
- 202 – “Search for resonant $t\bar{t}$ production in lepton+jets events in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-12-017, JHEP 12 (2012) 015 (2012-12-04), arXiv: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, JHEP 11 (2012) 088 (2012-11-15), arXiv:1209.3937 (2012-09-18).
- 200 – “Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q\bar{q}\ell^+\ell^-$ final state”
CMS-EXO-11-102, PLB 718 (2013) 1208 (2013-01-29), arXiv: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, PRL 110 (2013) 022003 (2013-01-11), arXiv:1209.3489 (2012-09-16).
- 198 – “Measurement of the $\Upsilon(1S)$, $\Upsilon(2S)$ and $\Upsilon(3S)$ polarizations in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-11-023, PRL 110 (2013) 081802 (2013-02-20), arXiv:1209.2922 (2012-09-14).
- 197 – “Measurement of the top-quark mass in $t\bar{t}$ events with dilepton final states in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-016, EPJC 72 (2012) 2202 (2012-10-31), arXiv:1209.2393 (2012-09-12).
- 196 – “Measurement of the top-quark mass in $t\bar{t}$ events with lepton+jets final states in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-015, JHEP 12 (2012) 105 (2012-12-19), arXiv: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, PRD 87 (2013) 012006 (2013-01-08), arXiv:1209.1805 (2012-09-10).

- 194 – “Search for exclusive or semi-exclusive $\gamma\gamma$ production and observation of exclusive and semi-exclusive e^+e^- production in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-FWD-11-004, JHEP 11 (2012) 080 (2012-11-15), arXiv:1209.1666 (2012-09-08).
- 193 – “Combined search for the quarks of a sequential fourth generation”
CMS-EXO-11-098, PRD 86 (2012) 112003 (2012-12-12), arXiv: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, PLB 718 (2012) 307-328 (2012-12-05), arXiv: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, PRD 86 (2012) 072010 (2012-10-26), arXiv: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, PRL 109 (2012) 251801 (2012-12-21), arXiv:1208.3477 (2012-08-17).
- 189 – “Search for three-jet resonances in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-060, PLB 718 (2012) 329-347 (2012-12-05), arXiv:1208.2931 (2012-08-14).
- 188 – “Observation of sequential Upsilon suppression in PbPb collisions”
CMS-HIN-11-011, PRL 109 (2012) 222301 (2012-11-26), arXiv:1208.2826 (2012-08-14).
- 187 – “Measurement of the $t\bar{t}$ production cross section in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-005, JHEP 11 (2012) 067 (2012-11-13), arXiv: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, PRL 110 (2013) 042301 (2013-01-22), arXiv: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, PLB 718 (2013) 1252-1272 (2013-01-29), arXiv: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, PLB 718 (2013) 1229-1251 (2013-01-29), arXiv: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, PLB 716 (2012) 30 (2012-08-17), arXiv: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, PRD 86 (2012) 052013 (2012-09-27), arXiv:1207.5406 (2012-07-26).
- 181 – “Search for heavy Majorana neutrinos in $\mu^\pm\mu^\pm$ + jets and $e^\pm e^\pm$ + jets events in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-076, PLB 717 (2012) 109-128 (2013-07-16), arXiv: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, EPJC 72 (2012) 2164 (2012-10-03), arXiv: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, PLB 718 (2013) 752-772 (2013-01-08), arXiv: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, EPJC 72 (2012) 2189 (2012-11-07), arXiv: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, JHEP 08 (2012) 130 (2012-08-27), arXiv: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, JHEP 10 (2012) 018 (2012-10-02), arXiv: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, PRL 109 (2012) 171803 (2012-10-26), arXiv:1207.1898 (2012-07-08).

- 174 – “Search for a fermiophobic Higgs boson in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-HIG-12-009, JHEP 09 (2012) 111 (2012-09-25), arXiv: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, JHEP 11 (2012) 172 (2012-11-30), arXiv:1207.0627 (2012-07-03).
- 172 – “Inclusive and differential measurements of the $t\bar{t}$ charge asymmetry in proton-proton collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-030, PLB 717 (2012) 129-150 (2013-07-16), arXiv: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, JHEP 08 (2012) 026 (2012-08-03), arXiv: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, PRL 109 (2012) 121801 (2012-09-20), arXiv: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, JHEP 09 (2012) 094 (2012-09-21), arXiv:1206.5663 (2012-06-25).
- 168 – “Performance of CMS muon reconstruction in pp collision events at $\sqrt{s} = 7$ TeV”
CMS-MUO-10-004, JINST 7 (2012) P10002 (2012-10-05), arXiv: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, PLB 718 (2013) 815-840 (2013-01-08), arXiv: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, PLB 717 (2012) 351-370 (2013-07-16), arXiv: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, PRL 109 (2012) 111806 (2012-09-11), arXiv: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, PLB 716 (2012) 82-102 (2013-07-16), arXiv: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, PLB 714 (2012) 158-179 (2013-07-16), arXiv: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, PRL 109 (2012) 141801 (2012-10-02), arXiv: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, PLB 715 (2012) 66-87 (2013-07-16), arXiv: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, PRL 109 (2012) 071803 (2012-08-16), arXiv: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, JHEP 10 (2012) 087 (2012-10-12), arXiv: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, JHEP 07 (2012) 143 (2012-07-24), arXiv: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, JHEP 08 (2012) 110 (2012-08-22), arXiv: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, PRL 109 (2012) 152303 (2012-10-08), arXiv:1205.2488 (2012-05-12).

- 155 – “Measurement of the Λ_b cross section and the $\bar{\Lambda}_b$ to Λ_b ratio with $J/\psi\Lambda$ decays in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-11-007, PLB 714 (2012) 136-157 (2013-07-16), arXiv: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, PLB 713 (2012) 408-433 (2013-07-16), arXiv: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, PLB 718 (2013) 773-794 (2013-01-08), arXiv:1205.0206 (2012-05-01).
- 152 – “Observation of a New Ξ_b Baryon”
CMS-BPH-12-001, PRL 108 (2012) 252002 (2012-06-21), arXiv: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, JHEP 06 (2012) 169 (2012-06-29), arXiv: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, JHEP 08 (2012) 023 (2012-08-03), arXiv: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, PLB 716 (2012) 260-284 (2013-07-16), arXiv: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, JHEP 06 (2012) 160 (2012-06-27), arXiv:1204.3170 (2012-04-14).
- 147 – “Measurement of the mass difference between top and antitop quarks”
CMS-TOP-11-019, JHEP 06 (2012) 109 (2012-06-19), arXiv:1204.2807 (2012-04-12).
- 146 – “Search for anomalous $t\bar{t}$ production in the highly-boosted all-hadronic final state”
CMS-EXO-11-006, JHEP 09 (2012) 029 (2012-09-11), arXiv: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, PRL 109 (2012) 022301 (2012-07-10), arXiv: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, JHEP 06 (2012) 126 (2012-06-22), arXiv: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, EPJC 72 (2012) 2080 (2012-09-20), arXiv: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, PRC 87 (2013) 014902 (2013-01-07), arXiv: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, JHEP 05 (2012) 123 (2012-05-25), arXiv: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, PRL 108 (2012) 261803 (2012-06-27), arXiv: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, EPJC 72 (2012) 2216 (2012-11-16), arXiv: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, PRD 85 (2012) 112007 (2012-06-19), arXiv: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, PLB 716 (2012) 103-121 (2013-07-16), arXiv:1203.5410 (2012-03-24).

- 136 – “Search for $B_s^0 \rightarrow \mu^+ \mu^-$ and $B^0 \rightarrow \mu^+ \mu^-$ decays”
CMS-BPH-11-020, JHEP 04 (2012) 033 (2012-04-06), arXiv:1203.3976 (2012-03-19).
- 135 – “Measurement of the cross section for production of $b \bar{b} X$, decaying to muons in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-10-015, JHEP 06 (2012) 110 (2012-06-19), arXiv:1203.3458 (2012-03-15).
- 134 – “Search for microscopic black holes in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-071, JHEP 04 (2012) 061 (2012-04-12), arXiv: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, JHEP 05 (2012) 055 (2012-05-14), arXiv: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, PLB 712 (2012) 176-197 (2013-07-16), arXiv:1202.5022 (2012-02-22).
- 131 – “Inclusive b-jet production in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-11-022, JHEP 04 (2012) 084 (2012-04-17), arXiv: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, PLB 710 (2012) 284-306 (2013-07-16), arXiv: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, PLB 713 (2012) 68-90 (2013-07-16), arXiv: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, PLB 711 (2012) 15-34 (2013-07-16), arXiv:1202.3827 (2012-02-17).
- 127 – “Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow \ell^+ \ell^- \tau^+ \tau^-$ decay channel in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-HIG-11-028, JHEP 03 (2012) 081 (2012-03-26), arXiv:1202.3617 (2012-02-16).
- 126 – “Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ channel in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-HIG-11-026, JHEP 03 (2012) 040 (2012-03-13), arXiv: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, EPJC 72 (2012) 1945 (2012-03-29), arXiv:1202.2554 (2012-02-12).
- 124 – “Search for the standard model Higgs boson in the decay channel $H \rightarrow ZZ \rightarrow 4\ell$ in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-HIG-11-025, PRL 108 (2012) 111804 (2012-03-13), arXiv: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, PLB 710 (2012) 403-425 (2013-07-16), arXiv: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, PLB 710 (2012) 91-113 (2013-07-16), arXiv:1202.1489 (2012-02-07).
- 121 – “Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q\bar{q}\ell^-\ell^+$ in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-HIG-11-027, JHEP 04 (2012) 036 (2012-04-06), arXiv: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, PLB 710 (2012) 26-48 (2013-07-16), arXiv: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, JHEP 06 (2012) 036 (2012-06-05), arXiv:1202.0704 (2012-02-06).
- 118 – “Suppression of non-prompt $J\psi$, prompt $J\psi$, and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV”
CMS-HIN-10-006, JHEP 05 (2012) 063 (2012-05-14), arXiv: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, EPJC 72 (2012) 2012 (2012-05-30), arXiv: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, PLB 710 (2012) 256-277 (2013-07-16), arXiv: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, PLB 709 (2012) 28-49 (2013-07-16), arXiv: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, PRL 108 (2012) 111801 (2012-03-12), arXiv:1112.0688 (2011-12-06).
- 113 – “Exclusive $\gamma\gamma \rightarrow \mu^+\mu^-$ production in proton-proton collisions at $\sqrt{s} = 7$ TeV”
CMS-FWD-10-005, JHEP 01 (2012) 052 (2012-01-11), arXiv:1111.5536 (2011-11-24).
- 112 – “ J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-10-014, JHEP 02 (2012) 011 (2012-02-07), arXiv: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, JHEP 01 (2012) 133 (2012-01-25), arXiv: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, PRD 85 (2012) 032002 (2012-02-07), arXiv: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, JHEP 01 (2012) 010 (2012-01-03), arXiv: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, PRD 84 (2011) 112002 (2011-12-08), arXiv: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, JHEP 11 (2011) 148 (2011-11-29), arXiv: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, EPJC 72 (2012) 1839 (2012-01-20), arXiv:1110.0181 (2011-10-04).
- 105 – “Performance of τ lepton reconstruction and identification in CMS”
CMS-TAU-11-001, JINST 7 (2012) P01001 (2012-01-03), arXiv: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, PRL 107 (2011) 271802 (2011-12-29), arXiv:1109.4985 (2011-09-26).
- 103 – “Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy”
CMS-SUS-11-003, PRL 107 (2011) 221804 (2011-11-21), arXiv:1109.2352 (2011-09-13).
- 102 – “Measurement of the $t\bar{t}$ Production Cross Section in pp Collisions at 7 TeV in Lepton + Jets Events Using b-quark Jet Identification”
CMS-TOP-10-003, PRD 84 (2011) 092004 (2011-11-14), arXiv: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, PRD 84 (2011) 052011 (2011-09-29), arXiv: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, JHEP 10 (2011) 007 (2011-10-04), arXiv:1108.0566 (2011-08-03).
- 99 – “Search for $B_s^0 \rightarrow \mu^+\mu^-$ and $B^0 \rightarrow \mu^+\mu^-$ decays in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-11-002, PRL 107 (2011) 191802 (2011-11-01), arXiv: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, JHEP 08 (2011) 141 (2011-08-30), arXiv: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, PLB 704 (2011) 123-142 (2013-07-16), arXiv: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, JHEP 10 (2011) 132 (2011-10-27), arXiv:1107.4789 (2011-07-26).
- 95 – “Determination of Jet Energy Calibration and Transverse Momentum Resolution in CMS”
CMS-JME-10-011, JINST 6 (2011) P11002 (2011-11-08), arXiv:1107.4277 (2011-07-22).
- 94 – “Search for Three-Jet Resonances in pp Collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-11-001, PRL 107 (2011) 101801 (2011-08-29), arXiv: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, JHEP 08 (2011) 156 (2011-08-31), arXiv:1107.1870 (2011-07-12).
- 92 – “A search for excited leptons in pp Collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-10-016, PLB 704 (2011) 143-162 (2013-07-16), arXiv:1107.1773 (2011-07-12).
- 91 – “Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-SUS-10-009, PRD 85 (2012) 012004 (2012-01-11), arXiv: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, JHEP 09 (2011) 109 (2011-09-23), arXiv:1107.0330 (2011-07-05).
- 89 – “Missing transverse energy performance of the CMS detector”
CMS-JME-10-009, JINST 6 (2011) P09001 (2011-09-09), arXiv: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, PRL 107 (2011) 201804 (2011-11-10), arXiv: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, JHEP 08 (2011) 155 (2011-08-31), arXiv:1106.4503 (2011-06-23).
- 86 – “Measurement of the B_s^0 Production Cross Section with $B_s^0 \rightarrow J/\psi\phi$ Decays in pp Collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-10-013, PRD 84 (2011) 052008 (2011-09-20), arXiv: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, JHEP 07 (2011) 113 (2011-07-26), arXiv: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, PRL 107 (2011) 091802 (2011-08-25), arXiv: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, JHEP 07 (2011) 098 (2011-07-21), arXiv: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, JHEP 08 (2011) 005 (2011-08-10), arXiv: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, PLB 704 (2011) 411-433 (2013-07-16), arXiv:1106.0933 (2011-06-07).
- 80 – “Measurement of the $t\bar{t}$ 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, EPJC 71 (2011) 1721 (2011-09-20), arXiv: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, PLB 702 (2011) 336-354 (2013-07-16), arXiv: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, PRL 107 (2011) 132001 (2011-09-19), arXiv:1106.0208 (2011-06-01).
- 77 – “Measurement of the $t\bar{t}$ production cross section and the top quark mass in the dilepton channel in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-TOP-11-002, JHEP 07 (2011) 049 (2011-07-11), arXiv:1105.5661 (2011-05-31).
- 76 – “Search for First Generation Scalar Leptoquarks in the $e\nu jj$ Channel in pp Collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-10-006, PLB 703 (2011) 246-266 (2013-07-16), arXiv: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, PRL 107 (2011) 052302 (2011-07-28), arXiv:1105.4894 (2011-05-26).
- 74 – “Measurement of $W\gamma$ and $Z\gamma$ production in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EWK-10-008, PLB 701 (2011) 535-555 (2013-07-16), arXiv: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, JHEP 07 (2011) 076 (2011-07-18), arXiv: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, JHEP 06 (2011) 093 (2011-06-21), arXiv: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, PRL 107 (2011) 021802 (2011-07-06), arXiv: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, JHEP 08 (2011) 086 (2011-08-19), arXiv: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, JHEP 06 (2011) 077 (2011-06-17), arXiv: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, PRL 106 (2011) 252001 (2011-06-20), arXiv: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, PLB 700 (2011) 187-206 (2013-07-16), arXiv: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, PRL 106 (2011) 231801 (2011-06-08), arXiv: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, JHEP 08 (2011) 117 (2011-08-25), arXiv: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, JHEP 05 (2011) 085 (2011-05-17), arXiv: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, JHEP 04 (2011) 050 (2011-04-12), arXiv: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, JHEP 06 (2011) 026 (2011-06-07), arXiv: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, JHEP 05 (2011) 093 (2011-05-19), arXiv: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, PRL 106 (2011) 211802 (2011-05-24), arXiv: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, PLB 701 (2011) 160-179 (2013-07-16), arXiv: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, PRL 106 (2011) 212301 (2011-05-24), arXiv: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, PLB 699 (2011) 25-47 (2013-07-16), arXiv: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, PLB 701 (2011) 204-223 (2013-07-16), arXiv:1102.4746 (2011-02-24).
- 55 – “Strange Particle Production in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV”
CMS-QCD-10-007, JHEP 05 (2011) 064 (2011-05-12), arXiv:1102.4282 (2011-02-21).
- 54 – “Measurement of $B\bar{B}$ angular correlations based on secondary vertex reconstruction at $\sqrt{s} = 7$ TeV”
CMS-BPH-10-010, JHEP 03 (2011) 136 (2011-03-28), arXiv: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, PRL 106 (2011) 201804 (2011-05-18), arXiv: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, PRC 84 (2011) 024906 (2011-08-12), arXiv:1102.1957 (2011-02-10).
- 51 – “First Measurement of Hadronic Event Shapes in pp Collisions at $\sqrt{s} = 7$ TeV”
CMS-QCD-10-013, PLB 699 (2011) 48-67 (2013-07-16), arXiv:1102.0068 (2011-02-01).
- 50 – “Dijet Azimuthal Decorrelations in pp Collisions at $\sqrt{s} = 7$ TeV”
CMS-QCD-10-026, PRL 106 (2011) 122003 (2011-03-22), arXiv: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, JHEP 05 (2011) 029 (2011-05-04), arXiv: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, JHEP 03 (2011) 090 (2011-03-18), arXiv:1101.3512 (2011-01-18).
- 47 – “Search for Heavy Stable Charged Particles in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-10-011, JHEP 03 (2011) 024 (2011-03-04), arXiv: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, PLB 698 (2011) 196-218 (2011-04-11), arXiv: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, PRL 106 (2011) 112001 (2011-03-17), arXiv: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, PLB 698 (2011) 21-39 (2011-03-28), arXiv:1012.5945 (2010-12-29).
- 43 – “Upsilon production cross section in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-BPH-10-003, PRD 83 (2011) 112004 (2011-06-15), arXiv: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, PRL 106 (2011) 201803 (2011-05-17), arXiv: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, PRL 106 (2011) 201802 (2011-05-17), arXiv:1012.4031 (2010-12-21).
- 40 – “Search for Microscopic Black Hole Signatures at the Large Hadron Collider”
CMS-EXO-10-017, PLB 697 (2011) 434-453 (2013-07-16), arXiv: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, JHEP 01 (2011) 080 (2011-01-19), arXiv: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, PRL 106 (2011) 082001 (2011-02-23), arXiv:1012.0799 (2010-12-03).
- 37 – “Search for Stopped Gluinos in pp collisions at $\sqrt{s} = 7$ TeV”
CMS-EXO-10-003, PRL 106 (2011) 011801 (2011-01-07), arXiv: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, JHEP 01 (2011) 079 (2011-01-19), arXiv: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, EPJC 71 (2011) 1575 (2011-03-22), arXiv: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, PLB 695 (2011) 424-443 (2011-01-17), arXiv: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, PRL 105 (2010) 262001 (2010-12-20), arXiv:1010.4439 (2010-10-21).
- 32 – “Search for Dijet Resonances in 7 TeV pp Collisions at CMS”
CMS-EXO-10-010, PRL 105 (2010) 211801 (2010-11-17), arXiv: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, JHEP 09 (2010) 091 (2010-09-27), arXiv:1009.4122 (2010-09-22).
- 30 – “CMS Tracking Performance Results from Early LHC Operation”
CMS-TRK-10-001, EPJC 70 (2010) 1165 (2010-11-24), arXiv: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, EPJC 70 (2010) 555-572 (2010-11-06), arXiv:1006.2083 (2010-06-11).
- 28 – “Measurement of the charge ratio of atmospheric muons with the CMS detector”
CMS-MUO-10-001, PLB 692 (2010) 83-104 (2010-08-23), arXiv: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, PRL 105 (2010) 022002 (2010-07-06), arXiv: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, PRL 105 (2010) 032001 (2010-07-13), arXiv: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, JHEP 02 (2010) 041 (2010-02-12), arXiv:1002.0621 (2010-02-04).
- 24 – “Commissioning and Performance of the CMS Pixel Tracker with Cosmic Ray Muons”
CMS-CFT-09-001, JINST 5 (2010) T03007 (2010-03-19), arXiv:0911.5434 (2009-11-28).
- 23 – “Measurement of the Muon Stopping Power in Lead Tungstate”
CMS-CFT-09-005, JINST 5 (2010) P03007 (2010-03-19), arXiv: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, JINST 5 (2010) T03002 (2010-03-19), arXiv:0911.5422 (2009-12-01).
- 21 – “Performance of CMS Muon Reconstruction in Cosmic-Ray Events”
CMS-CFT-09-014, JINST 5 (2010) T03022 (2010-03-19), arXiv:0911.4994 (2009-11-30).
- 20 – “Commissioning and Performance of the CMS Silicon Strip Tracker with Cosmic Ray Muons”
CMS-CFT-09-002, JINST 5 (2010) T03008 (2010-03-19), arXiv:0911.4996 (2009-11-30).
- 19 – “Performance of the CMS Cathode Strip Chambers with Cosmic Rays”
CMS-CFT-09-011, JINST 5 (2010) T03018 (2010-03-19), arXiv:0911.4992 (2009-11-30).
- 18 – “Performance of the CMS Hadron Calorimeter with Cosmic Ray Muons and LHC Beam Data”
CMS-CFT-09-009, JINST 5 (2010) T03012 (2010-03-19), arXiv:0911.4991 (2009-11-30).

- 17 – “CMS Data Processing Workflows during an Extended Cosmic Ray Run”
CMS-CFT-09-007, JINST 5 (2010) T03006 (2010-03-19), arXiv:0911.4842 (2009-11-26).
- 16 – “Performance of the CMS Drift Tube Chambers with Cosmic Rays”
CMS-CFT-09-012, JINST 5 (2010) T03015 (2010-03-19), arXiv: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, JINST 5 (2010) T03016 (2010-03-19), arXiv:0911.4895 (2009-11-26).
- 14 – “Commissioning of the CMS Experiment and the Cosmic Run at Four Tesla”
CMS-CFT-09-008, JINST 5 (2010) T03001 (2010-03-19), arXiv:0911.4845 (2009-11-26).
- 13 – “Identification and Filtering of Uncharacteristic Noise in the CMS Hadron Calorimeter”
CMS-CFT-09-019, JINST 5 (2010) T03014 (2010-03-19), arXiv:0911.4881 (2009-11-26).
- 12 – “Commissioning of the CMS High-Level Trigger with Cosmic Rays”
CMS-CFT-09-020, JINST 5 (2010) T03005 (2010-03-19), arXiv: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, JINST 5 (2010) T03019 (2010-03-19), arXiv:0911.4770 (2009-11-26).
- 10 – “Performance of the CMS drift-tube chamber local trigger with cosmic rays”
CMS-CFT-09-022, JINST 5 (2010) T03003 (2010-03-19), arXiv:0911.4893 (2009-11-26).
- 9 – “Fine Synchronization of the CMS Muon Drift-Tube Local Trigger using Cosmic Rays”
CMS-CFT-09-025, JINST 5 (2010) T03004 (2010-03-19), arXiv: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, JINST 5 (2010) T03013 (2010-03-19), arXiv:0911.4877 (2009-11-26).
- 7 – “Alignment of the CMS Muon System with Cosmic-Ray and Beam-Halo Muons”
CMS-CFT-09-016, JINST 5 (2010) T03020 (2010-03-19), arXiv:0911.4022 (2009-11-23).
- 6 – “Performance Study of the CMS Barrel Resistive Plate Chambers with Cosmic Rays”
CMS-CFT-09-010, JINST 5 (2010) T03017 (2010-03-19), arXiv:0911.4045 (2009-11-23).
- 5 – “Time Reconstruction and Performance of the CMS Electromagnetic Calorimeter”
CMS-CFT-09-006, JINST 5 (2010) T03011 (2010-03-19), arXiv:0911.4044 (2009-11-23).
- 4 – “Precise Mapping of the Magnetic Field in the CMS Barrel Yoke using Cosmic Rays”
CMS-CFT-09-015, JINST 5 (2010) T03021 (2010-03-19), arXiv:0910.5530 (2009-10-30).
- 3 – “Performance and Operation of the CMS Electromagnetic Calorimeter”
CMS-CFT-09-004, JINST 5 (2010) T03010 (2010-03-19), arXiv:0910.3423 (2009-10-20).
- 2 – “Alignment of the CMS Silicon Tracker during Commissioning with Cosmic Rays”
CMS-CFT-09-003, JINST 5 (2010) T03009 (2010-03-19), arXiv:0910.2505 (2009-10-15).
- 1 – “The CMS experiment at the CERN LHC”
CMS-CMS-00-001, JINST 3 (2008) S08004 (2008-08-14).