CMS Publications

* 1310 $−$ “Search for production of a single vector-like quark decaying to tH or tZ in the all-hadronic final state in pp collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-19-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-19-001/index.html), Submitted to PRD.
* 1309 $−$ “Girth and groomed radius of jets recoiling against isolated photons in lead-lead and proton-proton collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
[CMS-HIN-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIN-23-001/index.html), Submitted to PLB, [arXiv:2405.02737](https://arxiv.org/abs/2405.02737) (2024-05-04).
* 1308 $−$ “Search for new resonances decaying to pairs of merged diphotons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-22-022](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-22-022/index.html), Submitted to PRL, [arXiv:2405.00834](https://arxiv.org/abs/2405.00834) (2024-05-01).
* 1307 $−$ “Search for the Z boson decay to $ττμμ$ in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-016](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-016/index.html), Submitted to PRL, [arXiv:2404.18298](https://arxiv.org/abs/2404.18298) (2024-04-29).
* 1306 $−$ “Performance of CMS muon reconstruction from proton-proton to heavy ion collisions"
[CMS-MUO-21-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/MUO-21-001/index.html), Submitted to JINST, [arXiv:2404.17377](https://arxiv.org/abs/2404.17377) (2024-04-26).
* 1305 $−$ “Measurement of multijet azimuthal correlations and determination of the strong coupling in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-SMP-22-005](https://cms-results.web.cern.ch/cms-results/public-results/publications/SMP-22-005/index.html), Submitted to EPJC, [arXiv:2404.16082](https://arxiv.org/abs/2404.16082) (2024-04-24).
* 1304 $−$ “Search for Higgs boson pair production with one associated vector boson in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-006](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-006/index.html), Submitted to JHEP, [arXiv:2404.08462](https://arxiv.org/abs/2404.08462) (2024-04-12).
* 1303 $−$ “The CMS statistical analysis and combination tool: Combine"
[CMS-CAT-23-001](https://cms-results.web.cern.ch/cms-results/public-results/publications/CAT-23-001/index.html), Submitted to CSBS, [arXiv:2404.06614](https://arxiv.org/abs/2404.06614) (2024-04-10).
* 1302 $−$ “Searches for pair-produced multijet resonances using data scouting in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-21-004](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-21-004/index.html), Submitted to PRL, [arXiv:2404.02992](https://arxiv.org/abs/2404.02992) (2024-04-03).
* 1301 $−$ “Measurement of differential ZZ$+$jets production cross sections in pp collisions at $\sqrt{s}=$ 13 TeV"
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* 1300 $−$ “Search for ZZ and ZH production in the $b‾b‾$ final state using proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-22-011](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-22-011/index.html), Submitted to EPJC, [arXiv:2403.20241](https://arxiv.org/abs/2403.20241) (2024-03-29).
* 1299 $−$ “Measurement of the production cross section of a Higgs boson with large transverse momentum in its decays to a pair of $τ$ leptons in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-HIG-21-017](https://cms-results.web.cern.ch/cms-results/public-results/publications/HIG-21-017/index.html), Submitted to PLB, [arXiv:2403.20201](https://arxiv.org/abs/2403.20201) (2024-03-29).
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[CMS-EXO-23-007](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-23-007/index.html), To be submitted, [arXiv:2403.16134](https://arxiv.org/abs/2403.16134) (2024-03-24).
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* 1295 $−$ “Observation of the $J/ψ\rightarrow μ^{+}μ^{−}μ^{+}μ^{−}$ decay in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
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[CMS-TOP-23-003](https://cms-results.web.cern.ch/cms-results/public-results/publications/TOP-23-003/index.html), To be submitted, [arXiv:2403.01313](https://arxiv.org/abs/2403.01313) (2024-03-03).
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* 1276 $−$ “Search for fractionally charged particles in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
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* 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"
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* 833 $−$ “Search for top quark partners with charge 5/3 in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-B2G-17-014](https://cms-results.web.cern.ch/cms-results/public-results/publications/B2G-17-014/index.html), [JHEP 03 (2019) 082](https://doi.org/10.1007/JHEP03%282019%29082) (2019-03-14), [arXiv:1810.03188](https://arxiv.org/abs/1810.03188) (2018-10-08).
* 832 $−$ “Measurement of $B\_{s}^{0}$ meson production in pp and PbPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
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* 830 $−$ “Measurement of exclusive $Υ$ photoproduction from protons in pPb collisions at $\sqrt{s\_{​\_{NN}}}=$ 5.02 TeV"
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* 829 $−$ “Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
[CMS-EXO-16-053](https://cms-results.web.cern.ch/cms-results/public-results/publications/EXO-16-053/index.html), [JHEP 02 (2019) 074](https://doi.org/10.1007/JHEP02%282019%29074) (2019-02-13), [arXiv:1810.00196](https://arxiv.org/abs/1810.00196) (2018-09-29).
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* 825 $−$ “Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=$ 13 TeV"
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* 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"
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* 822 $−$ “Studies of $B\_{s2}^{\*}\left(5840\right)^{0}$ and $B\_{s1}\left(5830\right)^{0}$ mesons including the observation of the $B\_{s2}^{\*}\left(5840\right)^{0}\rightarrow B^{0}K\_{S}^{0}$ decay in proton-proton collisions at $\sqrt{s}=$ 8 TeV"
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