

# Publications with important contributions by the Particle Physics Collaboration

MIT

February 2025

## 1 CMS papers

### 1.1 Run 1 papers

- V. Khachatryan *et al.* [CMS], “CMS Tracking Performance Results from Early LHC Operation,” *Eur. Phys. J. C* **70**, 1165-1192 (2010) DOI [arXiv:1007.1988 [physics.ins-det]].
- V. Khachatryan *et al.* [CMS], “Measurements of Inclusive  $W$  and  $Z$  Cross Sections in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV,” *JHEP* **01**, 080 (2011) DOI [arXiv:1012.2466 [hep-ex]].
- S. Chatrchyan *et al.* [CMS], “Measurement of  $W^+W^-$  production and search for the Higgs boson in  $pp$  collisions at  $\sqrt{s} = 7$  TeV,” *Phys. Lett. B* **699**, 25-47 (2011) DOI [arXiv:1102.5429 [hep-ex]].
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- S. Chatrchyan *et al.* [CMS], “A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider,” *Science* **338**, 1569-1575 (2012) DOI
- S. Chatrchyan *et al.* [CMS], “Measurement of the lepton charge asymmetry in inclusive  $W$  production in  $pp$  collisions at  $\sqrt{s} = 7$  TeV,” *JHEP* **04**, 050 (2011) DOI [arXiv:1103.3470 [hep-ex]].
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- S. Chatrchyan *et al.* [CMS], “Search for the Standard Model Higgs Boson in the  $H \rightarrow ZZ \rightarrow 2\ell 2\nu$  Channel in  $pp$  Collisions at  $\sqrt{s} = 7$  TeV,” *JHEP* **03**, 040 (2012) DOI [arXiv:1202.3478 [hep-ex]].

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## 1.2 Run 2 papers

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### 1.3 Run 3 papers

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