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First Measurement of the isolated prompt diphoton production cross-section in CMS at $\sqrt{s}=7$ TeV

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Events with two isolated photons are a useful probe of hard-scattering QCD. Also, uncertainty in $\sigma(\text{diphoton} + X)$ is a major source of systematic error for Higgs and exotic diphoton searches. We present the first measurement of the isolated differential diphoton cross-section from proton-proton collisions at a center-of-mass energy of 7 TeV with the Compact Muon Solenoid detector at CERN. We compare the results with next-to-leading-order perturbative QCD calculations.

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