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Exclusive photon-photon processes in p-p collisions in CMS”

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We present the search for exclusive diphoton production and the measurement of exclusive dilepton production, based on the data recorded by the CMS experiment at the LHC in 2010. An upper limit on the cross section is set for exclusive diphoton production, which is compared with the QCD perturbative theory predictions using different PDF sets. The exclusive dielectron production provides an excellent control sample for exclusive diphoton production, and a comparison between the measurement and the QED prediction is discussed. In addition, we report a measured cross section of exclusive dimuon production, which is compared with the theoretical QED prediction evaluated with the event generator LPAIR.”

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