

Exclusive dilepton and Upsilon production with CMS

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Exclusive production of dileptons with no significant additional activity in the CMS detector occurs with high cross section in gamma-mediated processes at the LHC. Selecting events with a single back-to-back $\mu^+\mu^-$ or e^+e^- pair provides a high-statistics calibration sample, e.g. for luminosity measurements and alignment of forward proton detectors. Photoproduction of Upsilon mesons is another copious source of exclusive dileptons. We discuss the clear visibility of the three Upsilon resonances already after 100 pb⁻¹ of integrated luminosity.

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