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Latest results of diffractive and exclusive measurements with CMS

We present latest results of diffractive and exclusive measurements with the CMS experiment, such as measurements of exclusive upsilon and rho production, and studies of central exclusive production (CEP) processes. Exclusive Rho0 meson photoproduction in ultra-peripheral pPb collisions at √sNN =5.02 TeV is studied, for the first time, at the LHC with the CMS Collaboration. The cross sections are measured as a function of the photon-proton centre-of-mass energy, extending the energy range explored by the H1 and ZEUS Collaboration at HERA. In addition, the differential cross sections (dσ/d|t|), where|t|≈ pˆ2_T is the squared transverse momentum of produced vector mesons, are measured and the slope parameters are obtained. The results are compared to previous measurements and to theoretical predictions.

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