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First measurement of Diffraction in pPb collisions and recent results on ultra-peripheral heavy-ion processes

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In this talk, first results on diffraction measurements in pPb collisions will be presented. This measurement utilizes the larger rapidity acceptance of the CMS detector using forward calorimeters such as the forward hadronic calorimeters HF, CASTOR and ZDC. This measurement provides important information for models related to the initial state in pPb collisions, and can also be used to tune Monte Carlo event generators of cosmic ray physics. In addition, recent results on exclusive vector meson photoproduction of ρ^0 , J/ψ and Υ in both pPb and PbPb collisions will be presented. The measured integrated and differential cross sections as a function of rapidity and transverse momentum will be compared to theoretical models.

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