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LHCb measurements of Quarkonia Production in Ultraperipheral PbPb collisions and Z production in p Pb collisions

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Measurements of quarkonia production in peripheral and ultra-peripheral heavy-ion collisions are sensitive to photon-photon and photon-nucleus interactions, the partonic structure of nuclei, and to the mechanisms of vector-meson production. LHCb has studied both coherent and incoherent production of J/ψ mesons in peripheral and ultra-peripheral collisions using PbPb data at forward rapidity with the highest precision currently accessible. In addition, measurements of Z production in p Pb collisions provide new constraints on the partonic structure of nucleons bound inside nuclei. Here we will present these measurements of quarkonia and Z production, along with comparisons with the latest theoretical models.

In-person participation

No

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