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Ultraperipheral collisions and low-x physics

Monday, 23 March 2020 17:15 (35 minutes)

Ultraperipheral collisions at the LHC and RHIC offer the highest currently available energy for photon-nucleon and photon-nucleus collisions. Thus they are a valuable tool for studying the gluonic structure of hadrons and nuclei at small x. This talk will discuss experimental results in ultraperipheral collisions, most prominently exclusive vector meson production. We will also discuss recent theoretical work towards understanding such exclusive processes at NLO accuracy in QCD perturbation theory. These theoretical advances are also immediately relevant for understanding the physics of DIS at small x.

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