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Particle Production in Photon-Induced Processes

Wednesday, March 12, 2025 3:30 PM (30 minutes)

In this work, we investigate particle production in ultraperipheral collisions at the LHC. In these collisions, hadrons act as sources of quasi-real photons, enabling the study of photon-hadron and photon-photon interactions. We focus on the photoproduction of vector mesons, the production of dileptons and their bound states, as well as the production of exotic states. Photon-induced processes provide a clean experimental environment to test QCD dynamics in vector meson production and to search for new particles in photon-photon interactions. We present a brief review of the formalism and report our predictions for the cross sections of these processes.

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