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New results in Ultra-Peripheral collisions at LHCb

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Ultra-peripheral collisions provide a unique environment to study pomeron- and photon-induced reactions with heavy nuclei. These interactions can produce a wide range of final state particles, from light vector mesons to heavy quarkonia, and probe potentially exotic phenomena. With a fast and flexible DAQ, full particle ID, and the ability to reconstruct very low p_t particles, LHCb is uniquely well suited to study final states with leptons, hadrons or photons. Also, using the HeRSChE L detector, the far forward event activity can be detected and used to tag events with nuclear break-up. In this contribution, we will present recent LHCb results from ultra-peripheral heavy ion collisions and discuss how these impact our understanding new exotic phenomena, the partonic structure of nuclei and hadronization in small systems.

Authors: LHCb COLLABORATION; SCHMIDT, Nicolas (Los Alamos National Laboratory)

Presenter: SCHMIDT, Nicolas (Los Alamos National Laboratory)

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