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Ultra-peripheral collisions at LHCb

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Ultra-peripheral collisions (UPCs) 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 DAQ, full particle ID, and the ability to reconstruct very low p_t particles, LHCb is uniquely well suited to studies of hadronic final states in UPC events. We will present recent LHCb results from ultra-peripheral heavy ion collisions and discuss how these impact our understanding of the partonic structure of nuclei.

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