

UPC 2023: International workshop on the physics of Ultra Peripheral Collisions

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Latest LHCb UPC results

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Ultra peripheral collisions has a large range of observables which are kinematically hard to be measured. These includes light vector mesons from coherent effects and other probes requiring soft particle tracking. The LHCb experiment has unique capabilities to study multiple UPC observables, thanks to its low transverse momentum tracking and particle identification. This presentation will report on the recent results on quarkonia states and the exploration of other vector mesons produced in coherent and incoherent processes in PbPb collisions. Future detector upgrades will increase even further the access to soft tracks using the Magnet Station tracker. Projections and new physics achievables will be discussed.

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Session Classification: Reports from the RHIC and LHC experiments

Track Classification: Session 1: Vector meson photoproduction