

## Recent development on gamma gamma collisions at hadron colliders

*Wednesday 11 June 2025 09:30 (20 minutes)*

The LHC is not only the energy-frontier collider for parton-parton collisions, but it has proven to work as a powerful photon collider providing photon-photon collisions at center-of-mass energies never reached before. I will present results of the gamma-UPC Monte Carlo event generator [1] that can calculate any arbitrary exclusive final states produced via photon fusion in ultraperipheral collisions of protons and/or nuclei at the LHC, of relevance for novel SM measurements. The latest gamma-UPC developments and comparisons to LHC and RHIC data will be presented [2].

[1] H.-S. Shao and D. d'Enterria, JHEP 09 (2022) 248

[2] Nicolas Crepet, David d'Enterria, Hua-Sheng Shao, in preparation

**Authors:** D'ENTERRIA, David (CERN); SHAO, Huasheng (Centre National de la Recherche Scientifique (FR)); CRÉPET, Nicolas (IJCLab)

**Presenter:** CRÉPET, Nicolas (IJCLab)

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