

Measurements of photon-photon fusion at ATLAS

Thursday, 30 July 2020 10:50 (25 minutes)

Photon-photon fusion is a rare process at hadron and ion colliders. It is particularly interesting as a remarkably clean interaction with little (if any) remnant activity from the interacting particles. In this talk, we present the status of photon-photon fusion measurements at the ATLAS detector. This includes the production of photon pairs via light-by-light scattering in heavy ion collisions as well as photon-photon fusion measurements in proton-proton collisions that contain two charged leptons in the final state. The experimental techniques used in the proton-proton and heavy-ion measurements are different, due to the different amounts of pile-up activity, and will be discussed.

I read the instructions

Secondary track (number)

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Session Classification: Top Quark and Electroweak Physics

Track Classification: 04. Top Quark and Electroweak Physics