Probing photonic content of the proton using photon-induced dilepton production in p + Pb collisions at the LHC

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Abstract

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1. Introduction

A significant fraction of proton-proton collisions at the LHC involves quasireal photon interactions, where the photons are emitted by both protons. The proton-proton collision is then transformed into a photon-photon interaction and the protons are deflected at small angles. At LHC energies, these reactions occur at energies well beyond the electroweak energy scale. They offer an interesting field of research linked to photon-photon interactions, where the available effective luminosity is small, relative to parton-parton interactions, but is compensated by better known initial conditions and usually simpler final states.

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2. Results

... add your contributions in separate .tex files

References

[1] Chatrchyan, S., et al., 2012. Exclusive photon-photon production of muon pairs in proton-proton collisions at $\sqrt{s} = 7$ TeV. JHEP 1201, 052.