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Measurement of direct photons at forward rapidities in p-A collisions at LHC with ALICE

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on the behalf of the ALICE-FoCal Collaboration

Direct photon production at forward rapidity is a promising probe for the gluon content of protons and nuclei at small x.
In particular, the measurement of the nuclear modification factor for direct photons in
p–A collisions at the LHC is a crucial test for gluon saturation.
A new forward calorimeter (FoCal) is proposed as an upgrade to the ALICE experiment.
The detector will cover the range 3.5 < η < 5 which probes the gluon distributions at x ˜ 10⁻⁵ and Q ˜ p_T > 4 GeV. Performance studies show that an extremely high-granularity calorimeter is required. Results from R&D for this project will be discussed.

Collaboration

ALICE

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