



Contribution ID: 142

Type: Oral presentation

## Isolated-photon production and photon-jet correlations in pp and Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV in ALICE

*Tuesday, 5 April 2022 16:30 (20 minutes)*

Jets correlated with isolated photons are a promising channel to study jet quenching in heavy-ion collisions, as photons do not interact strongly and therefore constrain the  $Q^2$  of the initial hard scattering. The measurement of isolated single photon production constrains NLO pQCD predictions and PDFs, and isolated photon production in Pb-Pb collisions is sensitive to initial geometrical scaling and modifications of the nucleon structure function in nuclei. We present the isolated photon distributions measured in pp and Pb-Pb collisions and isolated photon-jet correlations measured in Pb-Pb collisions at  $\sqrt{s_{NN}} = 5.02$  TeV by the ALICE collaboration. The isolated-photon production is measured in the  $12 < p_T < 60$  GeV/c range in pp collisions and in the  $10 < p_T < 100$  GeV/c for the Pb-Pb collisions. We study correlations of isolated photons above 20 GeV/c with charged-particle jets above 20 GeV/c, reconstructed with the anti- $k_T$  algorithm. The correlations probe the lowest  $p_T$  range measured so far at LHC energies, and larger modifications due to the QGP are expected in the lower  $p_T$  regime.

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**Session Classification:** Parallel Session T04: Jets, high-pT hadrons, and medium response

**Track Classification:** Jets, high-pT hadrons, and medium response