



Contribution ID: 1081

Type: Parallel Talk

Probing the initial state with isolated photon production in small collision systems with ALICE

Thursday, 7 July 2022 17:45 (15 minutes)

Isolated photon measurements in pp and p-Pb collision systems probe the initial state of the incoming nucleon or nucleus, providing the opportunity to constrain parton and nuclear parton density functions (PDFs), and probe cold nuclear matter effects. Measurements in small collision systems also offer a baseline for Pb-Pb collision measurements.

We present measurements by ALICE of inclusive isolated photon distributions in pp collisions at $\sqrt{s} = 7, 8$ and 13 TeV and in p-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. The kinematic reach of these measurements is $p_T > 10$ GeV/c, extending previous measurements at these centre-of-mass energies down to small $x \sim 10^{-3}$.

In-person participation

Yes

Primary author: CC-CHAIRS, ALICE**Presenter:** XU, ran**Session Classification:** Strong interactions and Hadron Physics**Track Classification:** Strong interactions and Hadron Physics