



Contribution ID : 89

Type : Oral talk

Neutral meson measurements at ALICE experiment

Friday, 2 December 2022 17:45 (15)

The invariant differential cross sections of inclusive π^0 and η mesons were measured in the midrapidity region in pp collisions at $\sqrt{s} = 13$ TeV and p-Pb collisions at $\sqrt{s_{NN}} = 8.16$ TeV in a wide transverse momentum (p_T) range with the ALICE experiment. The unprecedentedly large p_T -range was achieved by combining various analysis techniques and triggers, involving the Electromagnetic Calorimeter (EMCal) and the Photon Spectrometer (PHOS). The obtained cross sections provide strong constraints on parton distributions and fragmentation functions for light mesons, and can be used to further improve the theoretical descriptions of hadron production.

Primary author(s) : Mr. KUSKOV, Vladislav (National Research Centre Kurchatov Institute); Dr. PERESUNKO, Dmitri (National Research Centre Kurchatov Institute); Dr. BLAU, Dmitry (National Research Centre Kurchatov Institute)

Presenter(s) : Mr. KUSKOV, Vladislav (National Research Centre Kurchatov Institute)

Session Classification : Heavy Ion Physics

Track Classification : Heavy ion physics