

Production of Neutral Mesons Identified by ALICE-PHOS in Pb-Pb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$

The finely segmented structure and small Moliere radius of the ALICE-PHOS detector allows to separate two photons from a π^0 decay at $p_T=30$ GeV/c with an efficiency of about 100%; at even higher p_T with smaller efficiency.

In this poster, we will present the π^0 production yield measurement with the ALICE-PHOS detector in various centralities in Pb+Pb collisions at $\sqrt{s_{NN}}=2.76\text{TeV}$. By comparing the production yield in peripheral collisions to that in pp collisions, we will discuss possible cold nuclear matter effects. The RAA and RCP ratio of π^0 will be presented to be compared with previous results at SPS and RHIC.

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