Contribution ID: **635** Type: **Poster**

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

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

In this poster, we will present the pi0 production yield measurement with the ALICE-PHOS detector in various centralities in Pb+Pb collisions at sqrt{s_{NN}}=2.76TeV. 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 pi0 will be presented to be compared with previous results at SPS and RHIC.

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Track Classification: Jets