



Contribution ID: 186

Type: Poster

Kaon Isospin Fluctuation in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE at LHC

Tuesday 15 May 2018 19:10 (30 minutes)

The first measurement of isospin fluctuations in the kaon sector is reported in Pb-Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV, recorded with the ALICE detector. A robust statistical observable ν_{dyn} was used to extract the novel isospin fluctuations from the distributions of neutral and charged kaons as a function of collision centrality. The results show a significant variation in the behaviour of ν_{dyn} in data when compared to existing Monte-Carlo models such as HIJING and AMPT. The details of the analysis and systematic studies in the extraction of ν_{dyn} and its centrality dependence in both data and Monte-Carlo models are reported.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name already specified

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Session Classification: Poster Session

Track Classification: Correlations and fluctuations