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Energy and centrality dependence of resonance production in heavy-ion collisions with ALICE at the LHC

Tuesday, 15 May 2018 19:10 (30 minutes)

In this talk we present a comprehensive set of measurements on hadronic resonance production with ALICE, including new results from the LHC Run II. Transverse momentum spectra, integrated yields, mean transverse momenta, particle ratios and nuclear modification factors will be presented for $\rho(770)^0$, $K^*(892)^0$, $\phi(1020)$, $\Sigma(1385)^\pm$, $\Lambda(1520)$ and $\Xi(1530)^0$ as a function of multiplicity/centrality in Pb-Pb collisions. New data for $K^*(892)^0$ and $\phi(1020)$ in Pb-Pb collisions at $\sqrt{s_{NN}} = 5.02$ TeV are used to study the energy dependence of the hadronic interactions and of jet quenching. The first results from the recent Xe-Xe run will also be shown. The obtained results give us the possibility to constrain the lifetime of the hadronic phase. They are discussed and compared to predictions of models such as grand-canonical thermal models, PYTHIA, PHSD and EPOS3 event generators and with lower energy measurements.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name will be specified later

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