

Hadronic resonances production in Pb–Pb collisions with ALICE detector at the LHC

Wednesday, 17 February 2016 16:10 (20 minutes)

Resonances are used to study the properties of the strongly interacting hot and dense matter produced in ultrarelativistic heavy–ion collisions. The system produced in such collisions evolves through different stages from early partonic phase to the hadronic one. Resonances can probe the existence of hadron rescattering and regeneration effects after hadronization. These effects can change resonance yields which are measured through their hadronic decay channels. We report the measurements of hadronic resonance production in Pb–Pb collisions at $\sqrt{s_{NN}} = 2.76$ TeV with ALICE detector at the LHC. Transverse momentum spectra, integrated yields, mean transverse momenta, particle ratios and nuclear modification factors of $K^*(892)^0$ and $\phi(1020)$ mesons will be discussed and compared to the corresponding measurements in other collision systems. The results will also be compared to theoretical model predictions.

Primary authors: SINGH, Ranbir (National Institute of Science Education and Research (IN)); FOR THE ALICE COLLABORATION

Presenter: DASH, Ajay Kumar (National Institute of Science Education and Research (IN))

Session Classification: Session 11