

Hadronic resonances production in pp, p–Pb and Pb–Pb collisions measured by ALICE at the LHC

Hadronic resonances are used to study the properties of the strongly interacting hot and dense matter produced in ultra-relativistic heavy-ion collisions. The medium produced in such collisions evolves through different stages, including an early partonic phase which is succeeded by a hadronic phase. Since resonance yields may be modified by rescattering and regeneration after hadronization, they can be used to study the properties of the hadronic phase. Furthermore, resonances can also be used in the systematic study of the baryon to meson anomaly at intermediate- p_T as well as understanding the flavor dependence of parton energy loss at high- p_T . The ALICE collaboration has performed a comprehensive set of resonance measurements in pp, p–Pb as well as Pb–Pb collisions at LHC energies. These measurements include the p_T spectra, integrated yields, mean p_T , nuclear modification factors and p_T -differential ratios which will be presented and compared to theoretical model predictions.

Primary author: Mr NAYAK, Kishora (NISER, Bhubaneswar)

Presenter: Mr NAYAK, Kishora (NISER, Bhubaneswar)

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