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Recent Hadronic Resonance Measurements at ALICE

Tuesday 28 June 2016 16:00 (20 minutes)

In heavy-ion physics, measurements of short-lived hadronic resonances allow the properties of the hadronic phase of the collision to be studied. In addition, resonances can be used along with stable hadrons to study parton energy loss in the quark-gluon plasma and the mechanisms that shape hadron p_{T} spectra at intermediate transverse momenta. Resonance measurements in small systems serve as a reference for heavy-ion collisions and contribute to searches for collective effects. An overview of recent results on hadronic resonance production measured in ALICE is presented. These results include a comprehensive study of the p_{T} spectra, yields, and nuclear modification factors of the $\mathrm{K}^{*}(892)^{0}$ and $\phi(1020)$ mesons in pp, p-Pb, and Pb-Pb collisions at different energies, as well as the p_{T} spectra and yields of the $\Sigma(1385)^{\pm}$ and $\Xi(1530)^{0}$ baryons in pp and p-Pb collisions. First results on resonance production in different collision systems from run 2 of the LHC will be presented. Prospects for studies of other resonances will also be discussed.

On behalf of collaboration:

ALICE

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