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Latest results on resonance production from small to large systems with ALICE

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Short-lived hadronic resonances are key tools to study the hadron-gas phase that characterizes the late-stage evolution of high-energy nuclear collisions. Regeneration and rescattering processes occurring in the hadron gas can be studied by measuring the yields of hadronic resonances and comparing them with model predictions with and without the simulation of hadronic interactions. Modification of the yields of hadronic resonances is also observed in pp and p-Pb collisions suggesting the possibility of a short-lived hadronic phase also in small collision systems.

In this talk, new results on $\Sigma(1385)$ and $\Xi(1820)$ production measured in pp collisions at 13 TeV with ALICE are presented. These results, which extend to higher mass the study of baryonic resonances measured at the LHC, complement existing measurements on resonance production in pp, p-Pb, Xe-Xe, and Pb-Pb collisions at various centre-of-mass energies. Moreover, new preliminary results on double-phi production yields in measured pp collisions at 7 TeV will be shown. The obtained results are compared to lower energy measurements and model calculations where available.

Primary author: CONFERENCE COMMITTEE CHAIRS, ALICE

Presenter: LIM, Bong-Hwi (Pusan National University (KR))

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