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## Hadronic resonance production measured with ALICE at the LHC

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## Collaboration

ALICE

## **Abstract content**

Short-lived hadronic resonances constitute a sensitive probe of the dynamical evolution of the fireball created in heavy-ion collisions, since a signi [U+FB01] cant fraction of them decay in the time span (of the order of few fm/c) between chemical and kinetic freeze-out. Competing processes, such as regeneration and re-scattering, may alter the ratio of the resonance to non-resonance yields. The study of resonance production in collision systems such as pp and p-Pb provides a necessary baseline to disentangle initial-state effects from genuine medium-induced effects. ALICE has measured the production of both meson and baryon resonances in different collision systems at LHC energies. A review will be presented in comparison with the measurements at RHIC energies and to the predictions from models. In particular, recent results on K(892)<sup>0</sup> and  $\phi(1020)$  production in p-Pb collisions at  $\sqrt{s_{\rm NN}}=5.02$  TeV will be discussed. Ratios of resonance to long-lived hadron production in Pb-Pb are compared with the same quantities measured in pp and p-Pb collisions, in order to investigate re-scattering effects. The nuclear modification factors (R\${AA}, R{pPb}), recently measured upto high p\_{\text{Nm}}{\text{mathrm}{T}}\$ for resonances, are compared to the same measurement for long-lived hadrons.

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