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Results on strange hadron and resonance production in Pb–Pb collisions at the LHC with ALICE

Strange hadrons and resonances are among the most sensitive probes to investigate the characteristics of the system formed in heavy-ion collisions.

The ALICE Collaboration has measured strange hadrons and meson resonances decaying into (final) charged particles. Results on the production of ϕ and K^{*0} resonances, K_S^0 , Λ , Ξ^- and Ω^- and their anti-particles at mid-rapidity in $\sqrt{s_{NN}} = 2.76$ TeV Pb–Pb collisions will be shown and compared with those at lower energy and in proton–proton interactions. Our current understanding will be discussed focussing on particle ratios, thermal model fits to particle yields, strangeness enhancement and baryon anomaly.

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