



High Energy Physics - Experiment

Resonance measurements in pp and Pb--Pb collisions with the ALICE detector

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The study of resonance production in pp collisions helps understanding hadronization mechanisms and tuning the QCD-inspired particle production models. In Pb--Pb collisions, resonances allow one to probe the temperature and time evolution of the fireball.

Transverse momentum spectra have been analyzed for ρ , ϕ and χ resonances using data from pp collisions at 7 TeV collected by the ALICE detector. A comparison with Monte Carlo event generators shows different levels of agreement for meson spectra, while χ is always underestimated.

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