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Energy and multiplicity dependence of $K^*(892)^0$ production in pp Collisions with ALICE at the LHC

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The lifetimes of short-lived hadronic resonances are comparable to the lifetime of the hadronic phase in high-energy heavy-ion collisions. These resonances are sensitive to re-scattering and regeneration processes in the time interval between the chemical and kinetic freeze-out, which might affect the resonance yields. Thus, such resonances can be very useful to probe the medium. Measurements in pp collisions are used as a reference for nuclear collisions and provide, in addition, information for the tuning of Quantum Chromodynamics (QCD) inspired event generators. In this contribution, we plan to present recent measurements of the production of the $K^*(892)^0$ resonance in pp collisions at the LHC with the ALICE detector. Results on transverse momentum spectra, yields and their ratios to long-lived particles will be presented and discussed as a function of energy and event multiplicity, as well as in comparison to model predictions.

Content type

Experiment

Collaboration

ALICE

Centralised submission by Collaboration

Presenter name already specified

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