

## **$K^*(892)^0$ Production in pp Collisions with ALICE Detector at the LHC**

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The lifetimes of short-lived hadronic resonances are comparable to the one of the hadronic phase of the medium produced in high-energy collisions. Thus, these resonances are sensitive to the re-scattering and regeneration processes in the time interval between the chemical and kinetic freeze-out, which might affect the resonance yields. The measurements in pp collisions are used as a reference for nuclear collisions and provide in addition information for the tuning of event generators inspired by Quantum Chromodynamics (QCD). In this contribution, we present recent results on  $K^*(892)^0$  obtained by the ALICE experiment in pp collisions at several collision energies and event multiplicities. Results on transverse momentum spectra, yields and their ratio to long-lived particles will be presented and the energy and multiplicity dependence will be discussed. The measurements will be compared with model predictions and measurements at lower energies.

### **List of tracks**

Hadron resonances

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