Contribution ID : 125

Strange Particle Production in pp Collisions at root s = 0.9 and 7 TeV measured with the ALICE Experiment

Content :

The production of hadrons in pp collisions has been studied using the excellent particle identification capabilities of the ALICE detector. Charged pions, kaons and protons are identified via their specific energy loss in the Time Projection Chamber, in the Inner Tracking System, as well as with the Time-of-Flight detector. Additionally, charged kaons are detected via their kink topology. The weak decay of strange particle, such as K0, Λ, Ξ and Ω, allows their detection via their displaced vertices.
Among these, hadrons with strangeness content are of particular interest. The spectral shapes and the integrated yields will be presented and compared with QCD-based approaches. Particle ratios are studied as a function of √s and of the charged-particle multiplicity. Furthermore, a comparison with statistical model calculation will be made. If available, first results from the heavy-ion run will be shown.

Collaboration :

ALICE Collaboration

Primary authors : Dr. OESCHLER, Helmut (TU Darmstadt and CERN)

Co-authors :

Presenter : Dr. OESCHLER, Helmut (TU Darmstadt and CERN)

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