

Measurement of $\Lambda(1520)$ in pp collisions at $\sqrt{s} = 13$ TeV

The first measurement of the $\Lambda(1520)$ baryonic resonance in pp collisions at $\sqrt{s} = 13$ TeV, performed using the ALICE detector at the LHC, is presented. The analysis details for invariant mass reconstruction in the hadronic decay channel $\Lambda(1520) \rightarrow pK^-$ are discussed. The invariant mass distributions for various p_T intervals are obtained from $0 < p_T$ (GeV/c) < 6 . The invariant p_T spectra, integrated yield, $\Lambda(1520)/\Lambda(1115)$ and mean p_T for inelastic collisions are also shown. This measurement serves as a baseline study for measurements performed in Pb-Pb collisions, where modifications to the $\Lambda(1520)$ yields may provide insight into the hadronic stage of system evolution.

Preferred Track

Collective Dynamics

Collaboration

ALICE

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