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## Strange Particle Production in p+p collisions at $\sqrt{s_{NN}} = 62.4$ GeV

### Content :

Measurements of strange particle production in elementary collisions provide a reference to measurements made in heavy-ion collisions, and this reference is crucial in studying the medium created at RHIC. They also provide insights into the various hadronization mechanisms in elementary collisions. The STAR experiment at RHIC is well suited for strange particle production studies since it has very good reconstruction capabilities at low transverse momentum (pT). The Time Projection Chamber (TPC) of STAR allows the identification of charged strange mesons ( $K^+$ ,  $K^-$ ) via measurements of energy loss. The neutral strange meson ( $K^0_S$ ) and strange baryons ( $\Lambda$ 's) are identified via V0 reconstruction. In this talk we will present a feasibility study with 1M events for strange particle measurements in p+p collisions with  $\sqrt{s_{NN}} = 62.4$  GeV at the STAR experiment.

### Collaboration :

STAR

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