

Measurements of Λ - Λ **Correlation Function at** $\sqrt{s_{NN}} = 3$ **GeV Au+Au Collisions at RHIC-STAR**



Ke Mi (<u>mike1996@mails.ccnu.edu.cn</u>) for the STAR Collaboration

Central China Normal University

Abstract

In heavy-ion collisions, two-particle femtoscopy is a powerful and method for extracting information about the spatio-temporal properties of the source, and characterizing the final state interactions (FSI). Among the less explored cases is the hyperon-hyperon (Y-Y) interaction, which is crucial for understanding the neutron star equation of state and searching for exotic hadrons. In this poster, the Λ - Λ correlation function measurements in Au+Au collisions at $\sqrt{s_{NN}}$ = 3 GeV (run21) from STAR fixed-target Beam Energy Scan II are presented.

