Proton-Proton and Antiproton-Antiproton Correlations in Au+Au collisions at sqrt(s)=130GeV

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Abstract

Information about properties of baryon and antibaryon distributions is of great importance for understanding physics of collisions at RHIC energies. The two-baryon correlation functions provide a unique source of information about the space-time configuration of baryons at freeze-out. We will present results of the first analysis of proton-proton and antiproton-antiproton small-relative momentum correlations made by the STAR Collaboration [1] at RHIC in Au+Au collisions at sqrt(s)=130 GeV.

[1] K.H. Ackerman et al, STAR Collaboration, nucl-ex/0009011 (2000)