Charged Particle Spectra in Au+Au collisions at $\sqrt{s_{NN}} = 130$ GeV

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Abstract

Hadron production in Au+Au collisions at BNL-RHIC is studied with the STAR experiment. Results are presented on charged hadron multiplicity, transverse momentum and pseudorapidity distributions at $\sqrt{s_{NN}} = 130$ GeV, and on spectra of identified particles (pions, kaons, and protons) in the midrapidity region. These observables are essential to gain insight into the global characteristics of heavy ion collisions at RHIC energies, and can provide tests and constraints on theoretical models. -