Contribution ID : **9** Type : **plenary talk**

Highlights from the STAR experiment

Saturday, 9 June 2018 10:30 (0:30)

Collaboration

STAR

Abstract content

The exploration of QCD phase diagram and study of the dynamics and mechanism of particle production in heavy-ion collisions is one of the current research interest in the field of high energy physics. In addition, the search for the QCD critical point in the phase diagram has been the main motivation to carry out the Beam Energy Scan program at the Relativistic Heavy Ion Collider (RHIC) facility at BNL. Under this program Au+Au collisions were recorded at $\sqrt{s_{NN}}$ = 7.7, 11.5, 14.5, 19.6, 27 and 39 GeV by the STAR detector at RHIC. We will present results of the identified particle production from BES energies. Our study focuses on the extraction of the chemical and kinetic freeze-out properties of the system and understanding the evolution and dynamics of particle production.

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