ICHEP 2016 Chicago



38th INTERNATIONAL CONFERENCE ON HIGH ENERGY PHYSICS

AUGUST 3 - 10, 2016 CHICAGO

Contribution ID: 1575

Type: Oral Presentation

Results from the Beam Energy Scan (15' + 5')

Friday, 5 August 2016 14:30 (20 minutes)

The Beam Energy Scan (BES) program at the Relativistic Heavy Ion Collider (RHIC) is mainly focused on a search for the critical point and the phase boundary in the QCD phase diagram. The first exploratory phase of the BES program was successfully completed in 2014, with Au+Au collisions at center-of-mass energies ranging from 7.7 to 200 GeV. In this talk, we report the beam energy dependence of several observables including directed flow (v1), elliptic flow (v2), nuclear modification factor (RAA), and multiplicity fluctuations of net-proton, net-charge and net-kaon. The outlook for the future BES Phase-II program will also be presented.

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Session Classification: Heavy Ions

Track Classification: Heavy Ions