Contribution ID: **527** Type: **Poster**

Charged Particle Yields and Anisotropic Flow at Forward Rapidities from Au+Au Collisions at 54 GeV Using the STAR Event Plane Detector

Tuesday 15 May 2018 19:10 (30 minutes)

The Event Plane Detector (EPD) is an upgrade to the STAR experiment that will significantly improve event plane resolution and provide a measure of collision centrality at forward rapidity ($2.1 < |\eta| < 5.1$). The complete detector, composed of two scintillator wheels at $\pm\eta$ and $2.1<|\eta|<5.1$, will be operational in the 2018 run, but in 2017, a quarter of one wheel was commissioned. Results from this run including the partial EPD from Au+Au collisions at $\sqrt{s_{NN}}$=54 GeV will be presented. The track densities at this energy are considerably higher than those expected for RHIC Beam Energy Scan energies ($\sqrt{s_{NN}}\leq$20 GeV) for which the detector was originally designed. Nevertheless, the detector performed very well in this higher density environment. Preliminary pseudorapidity distributions and anisotropic flow (v_1 and v_2) results will be shown for forward rapidities measured by the EPD during the 2017 run.

Content type

Experiment

Collaboration

STAR

Centralised submission by Collaboration

Presenter name already specified

Author: YE, Zhenyu (University of Illinois at Chicago)

Presenter: UPSAL, Isaac (Ohio State University)

Session Classification: Poster Session

Track Classification: Collective dynamics