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The nuclear modification factor in Au-Au at a collision energy of 27 GeV at the STAR.

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STAR experiment at RHIC has performed the Beam Energy Scan (BES) program, aimed to study energy dependence of properties of the quark-gluon plasma (QGP) formed in the collision of heavy ions. One of the features observed in the study of the QGP was the effect of suppression of particle with high transverse momentum $p_T \gtrsim 2 \text{ GeV}/c$ production. This effect was observed on the data from first stage of BES. Quantitatively this effect can be measured by the nuclear modification factor (R_{CP}). In 2018, the second phase of the BES program has started. Data on Au+Au collisions were collected at the energy of $\sqrt{s_{NN}} = 27 \text{ GeV}/c$. In this report we demonstrate our measurements of the particle spectra and the nuclear modification factor R_{CP} for unidentified charged particles, and comparison with BES-I measurements.

Summary

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