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Nuclear modification factor in the heavy ion collisions in beam energy scan program at STAR experiment.

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At high temperatures and baryon densities, a new state of hadronic matter, the quark-gluon plasma (QGP), is expected to emerge. Such conditions can be created in heavy ion collisions at modern colliders. One of the indicators of the occurrence of QGP in these collisions is the behavior of the nuclear modification factor, i.e., the ratio of the transverse momentum spectra normalized to the number of binary collisions in central events to peripheral ones. My work is devoted to the calculation of this factor at various energies in Au + Au collisions at the Relativistic Heavy Ion Collider (Brookheaven National Laboratory, USA) as part of the Beam Energy Scan II program in the STAR experiment.

Summary

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