



ОБЪЕДИНЕННЫЙ ИНСТИТУТ ЯДЕРНЫХ ИССЛЕДОВАНИЙ

ОБЩЕИНСТИТУТСКИЙ СЕМИНАР

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Past, Present, and Future of Heavy Ion Physics with STAR at RHIC

At the Relativistic Heavy Ion Collider (RHIC) at Brookhaven National Laboratory (BNL), conditions similar to those that existed in the first moments after the Big Bang are reproduced in the laboratory. The study of this hot and dense matter has led to a number of surprises: the matter is both extremely opaque to penetrating probes and flows as a nearly perfect fluid. The future of the program at RHIC is to quantitatively characterize the properties of this matter, using upgrades both to the accelerator and the experiments, which will enable precision studies of the matter in detail. I will focus on a few key measurements, their current limitations, and the methods by which these limitations will be addressed by the future program.