

STAR Experiment at RHIC

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STAR is one of the major experiments at the Relativistic Heavy-Ion Collider (RHIC) at the Brookhaven National Laboratory, Upton, New York. Our mission is to study the structure of matter with high-energy collisions including polarized p+p collisions for spin physics, d+Au, Cu+Cu and Au+Au collisions for the physics of quark-gluon plasma.

In this talk I will first discuss the physics focus of the STAR experiment. I will then present some recent results related to the formation of strongly coupled quark-gluon plasma at RHIC. Collective behaviors from the heavy-ion collisions will be emphasized. At the end, I will present our upgrade plans for the future spin and heavy-ion programs.