

STAR: Characterizing Hot Quark Matter

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Summary

With discovery of Quark Gluon Plasma well-established at RHIC, the STAR Experiment continues to work towards a more complete understanding of properties of the produced matter, and the conditions necessary for the phase change. We will present recent progress on characterizing quark matter at high temperature through a wide variety of measurement techniques in STAR's repertoire: from observing species suppression and correlations, to determining statistical moments and prospecting for symmetry-breaking.

RHIC has further embarked on a program to study this matter through a range of conditions achieved by varying the collision energies, which are hoped to span and locate the QCD critical poi

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