

## Nuclear Experiment

# Identified Hadron Production from the RHIC Beam Energy Scan

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A current focus at RHIC is the Beam Energy Scan to study the QCD phase diagram -- temperature ( $T$ ) vs. baryon chemical potential ( $\mu_B$ ). The STAR experiment has collected data for Au+Au collisions at  $\sqrt{s_{NN}} = 7.7$  GeV, 11.5 GeV, and 39 GeV in the year 2010. We present midrapidity results on rapidity density, average transverse mass, and particle ratios for identified hadrons from the STAR experiment. Collision dynamics are studied in the framework of chemical and kinetic freeze-out conditions.

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