

BEST Collaboration: Annual Meeting

Saturday, 5 August 2017 - Sunday, 6 August 2017

Stony Brook University

Scientific Programme

The Beam Energy Scan Theory (BEST) Collaboration project has been initiated to construct and provide a theoretical framework for interpreting the results from the ongoing Beam Energy Scan (BES) program at the Relativistic Heavy Ion Collider (RHIC) located at Brookhaven National Laboratory. This project has two main goals. The first is to discover (or put constraints on the existence of) a 'critical point' in the nuclear phase diagram. The second goal is to locate the onset of chiral symmetry restoration by observing correlations related to anomalous hydrodynamic effects in the quark-gluon plasma. Related theorists will develop a set of tools, models, and codes that will be used to analyze RHIC Beam Energy Scan data that will be made available to the research community. The BEST Collaboration funding is in conjunction with the "Topical Collaborations in Nuclear Theory" proposal (DOE LAB call FY-1269) and was granted pass thru status with collaborating institutions. The proposal's success is contingent upon having a multi-institution collaboration aligned with Nuclear Physics programmatic goals.