



# XXIV QUARK MATTER DARMSTADT 2014

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## PHENIX beam energy scan results

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The Beam Energy Scan (BES) program at RHIC has shown the flexibility to vary the beam energy per nucleon by more than an order of magnitude, down to the equivalent  $\sqrt{s_{NN}}$  of SPS fixed-target collisions and below. This allows the RHIC experiments to systematically track the evolution of excited nuclear matter as it crosses the QGP transition, and to explore new physics at significant net baryon density such as the possibility of a QCD critical point at high  $\mu_B$ . We present new results from PHENIX on the beam-energy dependence of observables including hydrodynamic flow parameters, 3D HBT source shapes, and global multiplicity and  $E_T$  production. We also discuss plans to utilize the upcoming BES-II running period at RHIC.

### **On behalf of collaboration:**

PHENIX

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