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QCD at non-zero density and phenomenology

Monday, 23 July 2018 11:30 (45 minutes)

In the last few years, numerical simulations of QCD on the lattice have reached a new level of accuracy. A wide range of thermodynamic quantities is now available in the continuum limit and for physical quark masses. This allows a comparison with measurements from heavy ion collisions for the first time. I will review the state-of-the-art results from lattice simulations of QCD thermodynamics and connect them to experimental measurements from RHIC and the LHC.

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