

QCD phase diagram for nonzero isospin-asymmetry

Monday, 25 June 2018 15:00 (30)

The QCD phase diagram is studied in the presence of an isospin asymmetry with lattice QCD methods. In particular, we investigate the phase boundary between the normal and the pion condensation phases and the chiral/deconfinement transition. Our findings indicate that no pion condensation takes place above $T \approx 160$ MeV and also suggest that the deconfinement crossover continuously connects to the BEC-BCS crossover at high isospin asymmetries.

Primary author(s) : Mr SCHMALZBAUER, Sebastian (Institut für theoretische Physik, Goethe-Universität Frankfurt)

Co-author(s) : Dr BRANDT, Bastian (Institut für Theoretische Physik, Goethe-Universität Frankfurt); Dr ENDRÖDI, Gergely (Institut für Theoretische Physik, Goethe-Universität Frankfurt)

Presenter(s) : Mr SCHMALZBAUER, Sebastian (Institut für theoretische Physik, Goethe-Universität Frankfurt)

Session Classification : Parallel