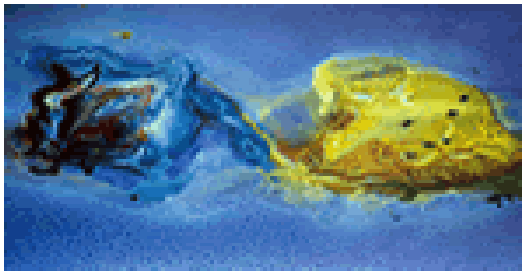

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QCD at nonzero isospin asymmetry

Friday 3 August 2018 18:18 (1 minute)

We study the phase diagram and the thermodynamic properties of QCD at nonzero isospin asymmetry at physical quark masses with staggered quarks. In particular, continuum results for the phase boundary between the normal and the pion condensation phases and the chiral/deconfinement transition are presented. Our findings indicate that no pion condensation takes place above T≈160 MeV and also suggest that the deconfinement crossover continuously connects to the BEC-BCS crossover at high isospin asymmetries. We also compare our results to the results from Taylor expansion and show first results for the equation of state.

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