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Lattice simulations of G2-QCD at finite density II

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G2-QCD is a QCD-like theory with fermionic baryons and fundamental quarks.
Unlike QCD it does not suffer from a fermion sign problem at finite baryon density and
therefore allows to investigate effects of fermionic baryons on the G2-QCD phase
diagram with standard Monte-Carlo methods.
In the talk we present recent results on the phase diagram at zero and
non-zero temperature with an emphasis on Chiral- and Diquark-Condensation.
We discuss various transitions in the quark number density related to the observed
mass hierarchy in the spectrum and show evidence for a first order nuclear matter transition.

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