

Magnetic field dependence of the NJL coupling from lattice QCD

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We address the question of the magnetic phase diagram of strong interactions, where chiral effective model descriptions show a different picture compared to lattice QCD results. We propose a physically motivated improvement scheme for effective models based on continuum extrapolated lattice data. We measured the magnetic field dependence of the baryon spectrum in full QCD simulations, which is fed as an input for the PNJL model to define a magnetic running coupling. This results in a corrected magnetic behaviour for other observables.

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