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Constraining the phase diagram of QCD at finite temperature and density

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Because of the severe sign problem afflicting lattice QCD at finite baryon density, still little is known from first principles about the phase diagram as a function of temperature and baryon chemical potential. In order to understand its relation to the underlying symmetries, it is necessary to study QCD in a wider parameter space with varying numbers of flavours and quark masses and, in particular, the chiral limit. I review recent results in QCD at finite temperature and/or density that help to constrain the phase diagram of physical QCD.

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