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Inhomogeneous phases in the QCD phase diagram

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For more than two decades now, models of QCD such as the NJL model and quark-meson models have been showing that a specially inhomogeneous phase is favoured over the homogeneous one at high chemical potentials. Few studies, however, have attempted to show this within QCD itself. This is in part due to the fact that the usual stability analysis formalism had not yet been developed for QCD. In this talk, I will summarise a newly developed framework for performing such a QCD-based stability analysis and discuss some preliminary results.

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