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Crystalline Phases in QCD

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For decades now, low-energy models of QCD have shown indications that a crystalline quark phase could be stable at high chemical potentials. Beyond models, however, there are numerous difficulties in investigating such a hypothesis in full QCD, such as the sign problem. Functional methods do not suffer from the sign problem, and thus, can access the high-μ side of the QCD phase diagram. In this talk, I will show how it is possible to perform a stability analysis of homogeneous phases in QCD using Dyson-Schwinger Equations (DSEs).

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