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Numerical computation of phase diagrams of QCD-inspired models in the large-N limit

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I discuss the computation of phase diagrams of theories, which have similar symmetries as QCD, like the Gross-Neveu model or the NJL model in the limit of an infinite number of fermion flavors using lattice field theory and related numerical approaches. Particular focus is put on phases, where condensates are spatially inhomogeneous. First results are presented.

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