Contribution ID: **131** Type: **not specified**

Inhomogeneous phases in the 2+1-dimensional Gross-Neveu model in the limit of infinite fermion flavors

Wednesday, 5 August 2020 15:00 (20 minutes)

We explore the phase diagram of the 2+1-dimensional Gross-Neveu model in the limit of infinite flavors, which shares certain properties with QCD, and the existence of an inhomogeneous phase using lattice field theory. Numerical results are presented, which include the phase boundaries in the μ-T plane as well as the structure of the chiral condensate in the inhomogeneous phase.

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Session Classification: QCD at nonzero Temperature and Density

Track Classification: QCD at nonzero Temperature and Density