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Inhomogeneous phases in the 1+1 dimensional Gross-Neveu model at finite numbers of fermion flavors

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We study the phase diagram of the 1+1 dimensional Gross-Neveu model at finite numbers of fermion flavors using lattice field theory. Particular focus is put on simulations at small temperature and large chemical potential. First results are presented, which indicate the existence of an inhomogeneous phase.

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