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## Inhomogeneous phases in 1+1 dimensional Gross-Neveu models at finite number of flavors on the lattice

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Four-fermion theories are widely appreciated as toy models for QCD and are also used in numerous condensed-matter applications. We investigate such theories, namely the 1+1 dimensional (chiral) Gross-Neveu models, at finite temperature and density, where mean field studies predict the existence of inhomogeneous phases, i.e., phases where the chiral condensate has a non-trivial spatial dependence. We discuss the fate of these phases when going to a finite number of fermion flavors on the lattice.

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