

Abstract Submitted
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Doped quasi-two-dimensional Hubbard model—stripes and superconductivity CHIA-MIN CHUNG, STEVEN WHITE, Univ of California - Irvine, UNIV OF CALIFORNIA - IRVINE TEAM — We study the ground state of hole-doped Hubbard model on cylinders in the parameter region relevant to cuprate superconductors using Density Matrix Renormalization Group method. The ground states we find are striped states with coexisting charge density wave and antiferromagnetic order. We discuss the competing energies between striped states of different wave lengths. The d-wave pairing in the striped states is also discussed.

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