Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

The stripe Phase in Ladder systems MING-SHYANG CHANG, IAN AFFLECK, NICOLAS LAFLORENCIE, Department of Physics & Astronomy, University of British Columbia — The density matrix renormalization group (DMRG) results suggest stripe phases as the ground state in N-leg doped t-J model with open boundary conditions. The most unusual feature of this phase is the coexistence of $4K_F$ density oscillation and d-wave pairing correlation. Here we analyze this phase by a general bosonization approach, which doesn't rely on the underlying Hamiltonian. We will also discuss the comparison with numerical data.

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Date submitted: 21 Mar 2013 Electronic form version 1.4