

Abstract Submitted  
for the MAR10 Meeting of  
The American Physical Society

**Charge and Superconducting Order in Stripe Phases<sup>1</sup>** AKBAR JAEFARI, Dept of Physics, University of Illinois, SIDDHARTHA LAL, EDUARDO FRADKIN, Dept. of Physics, University of Illinois — We discuss the phases of striped superconductors with a spin gap. We will focus on the interplay between 2D superconducting charge-density-wave orders, and the possible existence of sliding phases. We use bosonization methods and dimensional crossovers to determine the phase diagram of this system, as a function of temperature and inter-stripe interactions, as well as the behavior of the superconducting and CDW correlation functions.

<sup>1</sup>Work supported in part by NSF DMR 0758462 and DOE DE-FG02-91ER45439

Eduardo Fradkin  
Dept of Physics, University of Illinois at Urbana-Champaign

Date submitted: 20 Nov 2009

Electronic form version 1.4