

Abstract Submitted
for the MAR10 Meeting of
The American Physical Society

Competing states in the Kondo breakdown model¹ KANGJUN SEO, Louisiana State University, CATHERINE PEPIN, CEA-Saclay, France, ILYA VEKHTER, Louisiana State University — We investigate the emergence of ordered states around the Kondo breakdown quantum critical point in the slave boson description of the extended Kondo-Heisenberg and Anderson models. We consider the competition between magnetic, superconducting and spin gap states, and discuss the stability of the Kondo breakdown picture towards states competing with the simplest spin liquids considered so far.

¹supported by US DoE via Grant No DE-FG02-08ER46492 and I2CAM via NSF Grant DMR-0844115

Kangjun Seo
Louisiana State University

Date submitted: 20 Nov 2009

Electronic form version 1.4