

Abstract Submitted
for the MAR10 Meeting of
The American Physical Society

Physics of diluted dense Kondo lattices ZACHARY FISK, CIGDEM CAPAN, DANIEL HURT, UC Irvine, ERIC BAUER, YI-FENG YANG, JOE THOMPSON, LANL, ANDREA BIANCHI, U Montreal, NICHOLAS APROBERTS-WARREN, NICHOLAS CURRO, ADAM DIOGUARDI, DAVID PINES, ABBY SHOCKLEY, UC Davis — A thermodynamic analysis of the specific heat of superconducting $Ce_{1-x}La_xCoIn_5$ and related materials suggests that the superconducting fraction in the alloys is proportional to $1-x$. This gives the picture of holes in the dense Kondo metallic state surrounding the La sites, a picture which is consistent with other aspects of the physics of these doped systems.

Zachary Fisk
UC Irvine

Date submitted: 19 Nov 2009

Electronic form version 1.4