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$_x$CoIn$_5$ 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.

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