Studies of the Non-Fermi Liquid Kondo System $Lu_{1-x}Yb_xRh_2Si_2$.\textsuperscript{1}

SAMUEL MAQUILON, LONG PHAM, HAN-OH LEE, PETER KLAVINS, ZACH FISK, UC Davis — Single Crystalline Platelets of the $YbRh_2Si_2$ system show strong magnetic anisotropy. Specific Heat, Magnetic Susceptibility and Electrical Resistivity data are presented for the alloy system $Lu_{1-x}Yb_xRh_2Si_2$ across the entire composition range. The data suggests that the effective Kondo scale for $YbRh_2Si_2$ is smaller than that for the dilute alloys of $Yb$ in $LuRh_2Si_2$. This work was supported by NSF DMR-0433560.

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