High Pressure NMR study of Knight Shift Anomaly on the heavy electron material CeRhIn5

CHING LIN, NICHOLAS CURRO, KENT SHIRER, JOHN CROCKER, ADAM DIOGUARDI, ABIGAIL SHOCKLEY, MATTHEW LAWSON, University of California, Davis — We have measured the Nuclear Magnetic Resonance Knight Shift in the heavy f-electron material CeRhIn5 in order to investigate the coherence temperature $T^*$ as a function of pressure up to 2GPa. We find that the Knight Shift of both In(1) and In(2) sites changes significantly with pressure. Our results are consistent with the phase diagram proposed by Yang and Pines.

Ching Lin
University of California, Davis

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