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Nuclear Magnetic Resonance Study of Hidden Order in URu2Si2 KENT SHIRER, ADAM DIOGUARDI, JOHN CROCKER, NICHOLAS APROBERTS-WARREN, ABIGAIL SHOCKLEY, PETER KLAVINS, NICHOLAS CURRO, Department of Physics, University of California, Davis, CA 95616, USA — URu2Si2 is a heavy fermion system that has challenged researchers for many years due to its transition into a hidden order (HO) state at 17.5K. We present new nuclear magnetic resonance (NMR) data near the HO phase transition. An analysis of the spin-lattice relaxation rate and comparisons with other current work, provide insight into understanding the hidden order phase.

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