

Abstract Submitted
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NMR Study of Line Shape Effects Caused by the Hidden Order in a Random Powder of URu₂Si₂¹ S. JUNG, O. O. BERNAL, Physics and Astronomy Department California State University, Los Angeles, CA 90032, D. E. MACLAUGHLIN, Physics and Astronomy Department, University of California, Riverside, CA 92521, T. J. GORTENMULDER, Kamerlingh Onnes Lab, 2300 RA, Leiden, The Netherlands, J. A. MYDOSH, Institute of Physics 2, University of Cologne, Zulpicher Str. 77, 50937 Koeln, Germany — We present NMR data for an epoxy-potted random-powder sample of URu₂Si₂. We have followed the line shape from 280 K down to about 4 K and observed its changing features as functions of temperature and two values of the applied magnetic field strength (1 and 2 T). We will describe the effects of the hidden order (transition temperature $T_0 \sim 17.5$ K) on the line shape and compare them with previous results in *c*-axis oriented samples and single crystals.

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