

Abstract Submitted
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Complete Elastic Constants of the Heavy Fermion YbAgGe¹ I. MIHUT, J. BETTS, S. HARRINGTON, A. MIGLIORI, National High Magnetic Field Laboratory, LANL, Los Alamos, NM, 87545, S. L. BUD'KO, P. C. CANFIELD, Ames Laboratory, Iowa State University, Iowa 50011, USA — We measured the elastic constants of the heavy fermion YbAgGe using resonant ultrasound spectroscopy at temperatures from 300K to 0.5K and magnetic fields to 7T. As a function of magnetic field and below 7K, the elastic constants show strong non-monotonic behavior, suggesting a field-induced quantum critical point. Only at the lowest magnetic fields is there a strong temperature dependence.

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