Abstract Submitted
for the MAR06 Meeting of
The American Physical Society

Field dependence of RF susceptibility in the vicinity of a ferromagnetic transition in single crystals $CeAgSb_2$ R. PROZOROV, M.D. VANNETTE, S.A. LAW, S.L. BUD'KO, P.C. CANFIELD, Ames Laboratory and Department of Physics and Astronomy, Iowa State University, Ames, Iowa 50011 —
A 10 MHz resonant technique was used to study ferromagnetic transition in single crystals $CeAgSb_2$. Detailed measurements of field and temperature dependencies of the dynamic susceptibility in the vicinity of the ordering temperature were performed. It was found that a sharp peak in zero-field response rapidly smears out in a weak ($\sim$100 Oe) magnetic field. Obtained results are compared to DC magnetic susceptibility and resistivity, - both showing no similar effect. The possible relation our measurements to study dynamics of a ferromagnetic transition is discussed.

Ruslan Prozorov

Date submitted: 29 Nov 2005 Electronic form version 1.4