Abstract Submitted
for the MAR05 Meeting of
The American Physical Society

Magnetic and Kondo Behavior of $CeCoGe_2$ COSTEL ROTUNDU, BOHDAN ANDRAKA, University of Florida, P.O. Box 118440, Gainesville, FL 32611-8440 — There is great interest in exotic states among Ce-Kondo lattices. Recently, specific heat and magnetic susceptibility of $CeCoGe_2$ have been accounted by the S=5/2 Kondo model; i.e., no crystalline electric field (CEF) effects have been observed.[1] This result is surprising since related [2] $CeNiGe_2$, belonging to this crystal structure, exhibits strong anisotropy in magnetic and transport properties due to CEFs. Our magnetic susceptibility and specific heat results on (Ce,La)$CoGe_2$ suggest that exotic properties of this system are due to magnetic interactions in a quasi-two-dimensional Ce-lattice. This work was supported by NSF, grant DMR-0104240.

[1] E. D. Mun et al., Phys. Rev. B **69**, 85113 (2004).
[2] Y. Okada et al., J. Phys. Soc. Jpn. **72**, 2692 (2003).

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Date submitted: 28 Dec 2004 Electronic form version 1.4