Abstract Submitted
for the MAR06 Meeting of
The American Physical Society

**Quantum oscillations in $RAgSb_2$ (R = La, Sm, Y) as seen via magnetostriction measurements** S.L. BUD'KO, S.A. LAW, P.C. CANFIELD, Ames Laboratory and Dept. of Physics and Astronomy, Iowa State University, G.M. SCHMIEDESHOFF, Dept. of Physics, Occidental College, Los Angeles — We present low temperature longitudinal magnetostriction measurements taken using a capacitance dilatometer in a PPMS-14 instrument for several $RAgSb_2$ (R = rare earth) compounds. The quantum oscillations in magnetostriction were observed up to temperatures as high as 25 K. These data are compared with the results of de Haas - van Alphen and Shubnikov - de Haas measurements. Using these data the uniaxial stress dependencies of the extremal Fermi surface orbits can be evaluated.

Sergey Bud'ko
Iowa State University

Date submitted: 29 Nov 2005 Electronic form version 1.4