Abstract Submitted
for the DAMOP14 Meeting of
The American Physical Society

Bose-Einstein condensation of ^{86}Sr D.S. BARKER, B.J. RESCHOVSKY, N.C. PISENTI, G.K. CAMPBELL, JQI, University of Maryland and NIST, College Park, MD 20742 — We demonstrate a Bose-Einstein condensate of the alkaline-earth atom ^{86}Sr. We use a magneto-optical trap to load atoms into a pancake-shaped optical dipole trap. The large volume of the dipole trap allows forced evaporation to proceed despite the large scattering length ($\sim$ 800 a_0) of ^{86}Sr. Optical Feshbach resonances will allow us to tune the scattering length during future experiments.

Daniel Barker
Univ of Maryland-College Park

Date submitted: 31 Jan 2014 Electronic form version 1.4