

Abstract Submitted
for the DAMOP17 Meeting of
The American Physical Society

Towards Er-K quantum gas mixtures JACKSON ANGONGA,
BRYCE GADWAY, Univ of Illinois - Urbana — We present our efforts towards
developing a system that will trap and cool atomic mixtures of erbium and potas-
sium. We highlight the first polarization spectroscopy measurements of erbium,
which will be used to stabilize a 401nm laser beam, as well as progress towards
laser cooling both species. The system will be used to study few- and many body
physics, including collisional studies of Er-K mixtures and quantum magnetism with
dipolar atoms.

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Date submitted: 27 Jan 2017

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