

Abstract Submitted  
for the MAR13 Meeting of  
The American Physical Society

**Growth and Characterization of Na-doped KFeAs** ZACHARY SIMS, GUOTAI TAN, SCOTT CARR, CHENGLIN ZHANG, PENGCHENG DAI, University of Tennessee, Department of Physics, UNIVERSITY OF TENNESSEE, CONDENSED MATTER PHYSICS TEAM — We grew multiple dopings of Na-doped KFeAs, with a goal of observing an upward shift in the  $T_c$  from the KFeAs parent compound and a sharpening of the transition phase curve. Using a VSM and PPMS to characterize the magnetic transport, resistivity, and heat capacity, we have come to a conclusion on the success of Na-doping into the KFeAs family of FeAs superconductors.

Zachary Sims  
University of Tennessee, Department of Physics

Date submitted: 20 Nov 2012

Electronic form version 1.4