Abstract Submitted
for the MAR14 Meeting of
The American Physical Society

Unusual in-gap and hybridized states of a topological Kondo insulator candidate, SmB_6 B. ZHOU, LBNL,Oxford U., Z.K. LIU, Stanford U., S.H. YAO, Nanjing U., H.T. YUAN, Stanford U., Y. ZHANG, LBNL, M.H. LU, Y.F. CHEN, Nanjing U., H. HUANG, Stanford U., X. DAI, Z. FANG, CAS, Y. CUI, H.Y. HWANG, Stanford U., Z. HUSSAIN, LBNL, Z.-X. SHEN, Stanford U., S.-K. MO, LBNL, Y.L. CHEN, Oxford U. — Topological Kondo insulators represent a new type of topological insulator, in which a Kondo insulator exhibits non-trivial topological electronic structure and possesses an odd number of surface Dirac fermions in the bulk energy gap. Using angle-resolved photoemission spectroscopy (ARPES) and electric transport measurements, we investigated the electronic structure of SmB_6, a topological Kondo insulator candidate proposed recently. More details will be introduced in the presentation.

B. Zhou
LBNL,Oxford U.

Date submitted: 15 Nov 2013 Electronic form version 1.4