

Abstract Submitted
for the MAR07 Meeting of
The American Physical Society

Electronic Structure and CDW Physics in LaTe_2 using ARPES

DANIEL GARCIA, University of California, Berkeley, GEY-HONG GWEON, University of California, Santa Cruz, SHUYUN ZHOU, University of California, Berkeley, JEFF GRAF, Lawrence Berkeley National Laboratory, CHRIS JOZWIAK, University of California, Berkeley, MYUNG-HWA JUNG, Korea Basic Science Institute (KBSI), YONG SEUNG KWON, Sung Kyun Kwan University, Korea, ALESSANDRA LANZARA, University of California, Berkeley — We report a direct study of the band structure and charge density wave (CDW) formation in LaTe_2 , by using high-resolution angle-resolved photoemission spectroscopy (ARPES). The nature of the CDW formation, the momentum dependence of the CDW gap and the role of dimensionality in the tellurides will be presented. Finally the transition from a stripe to a checkerboard phase and its layer dependence will be addressed.

Daniel Garcia
University of California, Berkeley

Date submitted: 20 Nov 2006

Electronic form version 1.4