

Abstract Submitted  
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**A Systematic Photoemission Study of the Fe(Te<sub>1-x</sub>Se<sub>x</sub>) Superconductor System** YUQI XIA, Princeton University, N.L. WANG, Institute of Physics, Chinese Academy of Science, ZAHID HASAN, Princeton University — We present a systematic photoemission study of the newly discovered superconducting class Fe(Te<sub>1-x</sub>Se<sub>x</sub>). By using a series of photon energies and scattering geometries we investigated the details of the quasiparticle dispersion, Fermi surface and the global band structure. Doping dependent phase diagram study into the superconducting regime would be reported.

YuQi Xia  
Princeton University

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