

MAR05-2004-000081

Abstract for an Invited Paper
for the MAR05 Meeting of
the American Physical Society

Modern Photoemission Spectroscopy - 100 Years Since Einstein's Photon

ZHIXUN SHEN, Departments of Physics, Applied Physics and Stanford Synchrotron Radiation Laboratory

Photoemission spectroscopy has emerged as a leading tool to push the frontier of condensed matter physics—100 years since Einstein's photon. The power of photoemission stems from the direct way it measures electronic structure. In the past decade, enormously improved resolution and experimental collaborations have allowed this technique to influence some of the deepest questions of quantum physics. We will present recent results from complex materials to showcase the progress.