

Theory of Electron-Phonon Coupling in the Cuprates

Thomas Deveraux
University of Waterloo

A review of recent progress in understanding spectral features in angle-resolved photoemission in the cuprates will be made, with a particular focus on how might ARPES spectral functions be used to help pinpoint a pairing mechanism in anisotropic materials in the same way that tunneling spectroscopy was used in conventional superconductors. Specific modes will be discussed in relation to ARPES and superconductivity, and some empirical relations will be reviewed.