

Abstract Submitted  
for the MAR13 Meeting of  
The American Physical Society

**New insights into the phase diagram of the copper oxide superconductors from electronic Raman scattering** ALAIN SACUTO, SIHAM BENHABIB, YANN GALLAIS, MAXIMILIEN CAZAYOUS, MARIE-AUDE MEASSON, SEBASTIEN BLANC, Universite Paris Diderot, Laboratoire Materiaux et Phénomènes Quantiques, Paris, France, GENDA GU, Brookhaven National Laboratory, Condensed Matter Physics & Materials Science Department, NY 11973, DOROTHEE COLSON, Service de Physique de l'Etat Condensé, CEA-Saclay, 91191 Gif-sur-Yvette, France — We explore the cuprate phase diagram by electronic Raman spectroscopy and shed light on the superconducting state in hole doped cuprates. Namely, how superconductivity is impacted by the pseudogap.

Alain Sacuto  
Universite Paris Diderot, Laboratoire Materiaux et  
Phénomènes Quantiques, Paris, France

Date submitted: 13 Nov 2012

Electronic form version 1.4