

## ANDREA DAMASCELLI

Ph.D. (University of Groningen, The Netherlands)

B.Sc. (University of Milan, Italy)

### Employment History

- 2002- Assistant Professor and Canada Research Chair (Tier II),  
Department of Physics & Astronomy, University of British Columbia.
- 2001-2002 Research Associate, Stanford Synchrotron Radiation Laboratory.
- 1999-2001 Postdoctoral Fellow, Department Of Physics, Stanford University.

### Ten most significant relevant publications for past 5 years (Total over past 5 years: 29)

1. M. Plate<sup>\*</sup>, J.D.F. Mottershead, I.S. Elfimov, D.C. Peets, Ruixing Liang, D.A. Bonn, W.N. Hardy, S. Chiuzbaian, M. Falub, M. Shi, L. Patthey, and A. Damascelli, "Fermi Surface and Quasiparticle Excitations of overdoped  $Tl_2Ba_2CuO_{6+\delta}$  by ARPES", *Phys. Rev. Lett.* 95, 077001, 4 pgs (2005).
2. K.M. Shen, F. Ronning, D.H. Lu, W.S. Lee, N.J.C. Ingle, W. Meevasana, F. Baumberger, A. Damascelli, N.P. Armitage, L.L. Miller, Y. Kohsaka, M. Azuma, M. Takano, H. Takagi, and Z.-X. Shen, "Missing Quasiparticles and the Chemical Potential Puzzle in the Doping Evolution of the Cuprate SC", *Phys. Rev. Lett.* 93, 267002, 4 pgs (2004).
3. D. van der Marel, H.J.A. Molegraaf, J. Zaanen, Z. Nussinov, F. Carbone, A. Damascelli, H. Eisaki, M. Greven, P. H. Kes, and M. Li, "Universal powerlaw of the optical conductivity and the phase angle spectra of optimally doped cuprates", *Nature* 425, 271, 4pgs (2003).
4. A. Damascelli, Z. Hussain, Z.-X. Shen, "Angle-resolved photoemission studies of the cuprate superconductors", *Rev. Mod. Phys.* 75, 473, 69 pgs (2003).
5. N.P. Armitage, F. Ronning, D.H. Lu, C. Kim, A. Damascelli, K.M. Shen, D.L. Feng, H. Eisaki, Z.-X. Shen, P.K. Mang, N. Kaneko, M. Greven, Y. Onose, Y. Taguchi, Y. Tokura, "Doping Dependence of an n-Type Cuprate Superconductor Investigated by ARPES", *Phys. Rev. Lett.* 88, 257001, 4pgs (2002).
6. H. Uchiyama, K.M. Shen, S. Lee, A. Damascelli, D.H. Lu, D.L. Feng, Z.-X. Shen, S. Tajima, "Electronic Structure of  $MgB_2$  from ARPES", *Phys. Rev. Lett.* 88, 157002, 4 pgs (2002).
7. D.L. Feng, A. Damascelli, K.M. Shen, H. Eisaki, C. Kim, D.H. Lu, F. Ronning, N.P. Armitage, Z.-X. Shen, K. Shimizu, J.-i Shimoyama, K. Kishio, N. Motoyama, N. Kaneko, M. Greven, G.D. Gu, "ARPES Study of the Trilayer Superconductor  $Bi_2Sr_2Ca_2Cu_3O_{10+\delta}$ ", *Phys. Rev. Lett.* 88, 107001, 4 pgs (2002).
8. N.P. Armitage, D.H. Lu, C. Kim, A. Damascelli, K.M. Shen, F. Ronning, D.L. Feng, Z.-X. Shen, Y. Onose, Y. Taguchi, Y. Tokura, "Anomalous Electronic Structure and Pseudogap Effects in  $Nd_{1.85}Ce_{0.15}CuO_4$ ", *Phys. Rev. Lett.* 87, 147003, 4pgs (2001).
9. D.L. Feng, N.P. Armitage, D.H. Lu, A. Damascelli, J.P. Hu, P. Bogdanov, A. Lanzara, F. Ronning, K.M. Shen, H. Eisaki, C. Kim, Z.-X. Shen, J.-i. Shimoyama, K. Kishio, "Bilayer Splitting in the Electronic Structure of Heavily Overdoped  $Bi_2Sr_2CaCu_2O_{8+\delta}$ ", *Phys. Rev. Lett.* 86, 5550, 4 pgs (2001).
10. A. Damascelli, D.H. Lu, K.M. Shen, N.P. Armitage, F. Ronning, D.L. Feng, C. Kim, Z.-X. Shen, T. Kimura, Y. Tokura, Z.Q. Mao, Y. Maeno, "Fermi Surface, Surface States, and Surface Reconstruction in  $Sr_2RuO_4$ ", *Phys. Rev. Lett.* 85, 5194, 4 pgs (2000).

### Competitive Grant Funding for the last 5 years

1. "Development of a novel apparatus for ultra-low temperature ARPES" CND\$ 101,992 per annum, Natural Sciences and Engineering Research Council – Project 2005-2008. Principal Investigator: A. Damascelli.
2. "High pressure growth of Tl-Ba cuprate" CND\$ 54,234, Natural Sciences and Engineering Research Council - Project 2005. Principal Investigators: W.N. Hardy, D. Bonn, J. Brewer, A. Damascelli, R. Kiefl.
3. "Low-Temperature Photoelectron Spectroscopy on Ultra-Thin Films" CND\$ 163,844, Natural Sciences and Engineering Research Council – Project 2003. Principal Investigator: A. Damascelli.
4. "Electronic and Magnetic Interactions in Novel Complex Systems" CND\$ 41,000 per annum, Natural Sciences and Engineering Research Council – Project 2003-2006. Principal Investigator: A. Damascelli.
5. "State-of-the-Art ARPES Apparatus for the Study of Electronic and Magnetic Interactions in Novel Complex Systems" CND\$ 600,000, CFI-BCKDF - Project 2002. Principal Investigator: A. Damascelli.
6. "Tier II Canada Research Chair: Electronic Structure of Solids", CND\$ 74,000 per annum, Canadian Government, CRC Program - Project 2002-2006. Principal Investigator: A. Damascelli.