Curriculum Vitae

Name: Amit Kanigel
I.D: 028983542
Place of Birth: Israel
Date of Birth: 30/1/1972
Marital Status: Married +3
Address: Physics Department
Technion
Haifa 32000, Israel
Tel.: +972-4-8293557
Fax: +972-4-8295755
E-Mail: amitk@physics.technion.ac.il

Education

1999-2003 - Ph.D. Physics, Physics department, Technion, Israel.
Thesis: "Interplay between magnetism and superconductivity in the cuprates"

1996-1999 – M.Sc, Physics, Physics department, Technion, Israel.
Thesis: "Role of defects in the melting transition"

1992-1995 – B.Sc, Physics, Physics department, Technion, Israel.

Research Area

Angle Resolved Photoemission spectroscopy.

Superconductivity and in particular electronic structure and magnetic correlations in high temperature superconductors.

Muon Spin Resonance (MuSR).

Sample preparation.

BEC in solid-state systems.

Professional Experience

2013 - Associate professor - Physics Department, Technion, Israel.

2007 - 2013 Assistant professor – Physics Department, Technion, Israel.

2004 - 2007 PostDoc in J.C. Campuzano's group, UIC and Argonne National Labs.

2003 - 2004 - PostDoc in the group of Prof. Amit Keren at the physics department, Technion, Israel.

Teaching experience

Physics 1m (Mechanics for undergrads)

Physics 2 (Electromagnetism for undergrads)

Teaching labs 1,2,4

Graduate students

Graduated:

Moran Zaberchick, MSc. Superconductivity in $TiSe_2Cu_x$

Yuval Lubashevsky, PhD. Zn substitution in Bi2212

Montaser Naamne, MSc. Critical current in Bi2212

Elias Lahoud, PhD. Disorder induced metallic phase in Mott insulator

In progress:

Muntaser Naamne, PhD, Expected graduation 2014.

Amit Ribak, MSc, Expected graduation 2014.

Shahar Rinot, PhD, Expected graduation 2016.

Honors and Fellowships

2003. Lady Davis Postdoctoral Fellowship.

2003 Gutwirth prize.

2013 Krill prize.

2013 The Henri Taub prize.

Invited talks

1. **Common energy scale for magnetism and superconductivity in underdoped cuprates: a MuSR investigation of $(Ca_xLa_{1-x})(Ba_{1.75-x}La_{0.25+x})Cu_3O_y$**, High Tc workshop, Virginia US, 2002.
2. **Common energy scale for magnetism and superconductivity in underdoped cuprates,** Minerva meeting, Blaubeuren, Germany 2003.
3. **Common energy scale for magnetism and superconductivity in cuprates,** Minerva meeting, Tel Aviv 2005.
4. **From Fermi Arcs to Nodal Metal: Scaling of the Pseudogap with Temperature and Doping**, Lattice effect in superconductors, Santa Fe, US 2006.
5. **Magnetic penetration depth measurements in Na_xCoO_2 yH_2O.** First International workshop on the physical properties of lamellar cobaltates, Orsay, France 2006.
6. CORPES07, Strong Correlations and Angle Resolved Photoemission Spectroscopy, Dresden April 2007.
7. MICUO, Metal Insulator Transition in Cuprates, Parma, March 2008.
8. Aspen summer school, strongly correlated materials, Aspen, July 2009.
9. SUPERSTRIPES11, Rome 2011.
10. 5th Indo-Israeli Conference on Condensed Matter Physics, Cochin 2011.
11. 1th China-Israel Meeting on strongly correlated matarials, Jerusalem 2011.
12. M2S 2012 Washington DC July 2012.
13. APS March meeting, Baltimore 2013.

Contributed talks

1. **Common energy scale for magnetism and superconductivity**, LT23 2002 Hiroshima Japan
2. **Extending the validity of the Uemura relation,** ICM 2003 Rome Italy.
3. **Common energy scale for magnetism and superconductivity**, workshop on superconductivity 2004, Miami US
4. **From Fermi Arcs to Nodal Metal: Scaling of the Pseudogap with Temperature and Doping,** APS March meeting Baltimore, US 2006.
5. **Magnetic analogue of the isotope effect,** APS March meeting Baltimore, US 2006.
6. **Protected nodes and the collapse of the Fermi arcs,** APS March meeting, Denver, US 2007.
7. **Evidence for pairing above Tc from the electronic dispersion in the PG state,** LT25, Amsterdam, August 2008.
8. **Single energy gap in Zn-Bi2212,** Glassy09, Paris, August 2009.
9. **Single energy gap in Zn-Bi2212**, M2S, Tokyo, September 2009.
10. **Superconducting gap in Zn-2212**, NGSCES1, Lanzarote, June 2010.