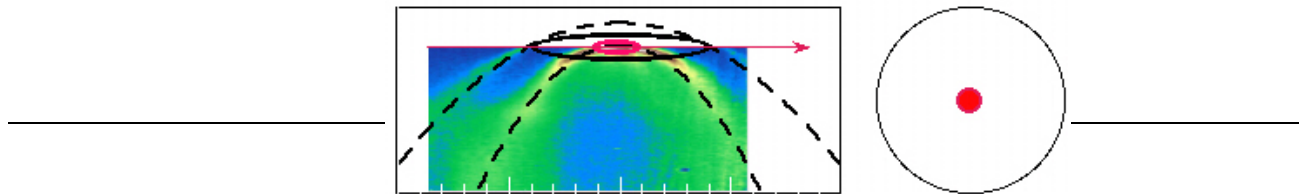


International school
MULTI-CONDENSATES SUPERCONDUCTIVITY
ERICE JULY 19-25, 2014



PROGRAM

DAY 1, JULY 20TH, SUNDAY

8:30-11:00

CHAIRMEN: SADEMELO, BIANCONI

8:30 Opening

8:45 P. Hirschfeld: "Interplay of disorder, nematicity and magnetism in Fe-based Superconductors"

9:30 A. Moreo: "Nematic Susceptibility in Systems with Magnetic, Orbital, and Lattice Degrees of Freedom"

10:15 A. Bianconi

11:00 - 11:15 Coffee Break

11:15 - 11:30 Poster Session

11:30-13:00

CHAIRMEN: KONTANI, HIRSCHFELD

11:30 A. Vagov

12:00 E. Babaev: "Type-1.5 superconductivity in multicomponent systems"

12:30 J. Chang: "Competition between superconductivity and charge order in $\text{YBa}_2\text{Cu}_3\text{O}_{7-x}$: A hard X-ray diffraction study"

13:00 - 14:45

Lunch

14:45-16:15

CHAIRMEN: BABAEV, VAGOV

14:45 T. Örd "Asymptotic scales in the spatial behaviour of two-gap superconductivity"

15:15 M.V. Kartsovnik: "High-Field Magnetotransport Studies of the Fermi Surface in the Electron-Doped Cuprate $\text{Nd}_{2-x}\text{Ce}_x\text{CuO}_4$ "

15:45 T. Yanagisawa: "Multi-phase physics of multi-condensate superconductors"

16:15 - 16:30 Coffee Break

16:30 - 16:45 Poster Session

16:45-18:15

CHAIRMEN: ÖRD, CHANG

16:45 S-L. Drechsler : "Mass Renormalizations and Unconventional Pairing in Superconducting Iron Pnictides"

17:15 S-Y. Wu "Holographic Model of Two-Band Superconductor"

----- POSTER SESSIONS

M. Horio: "ARPES and core-level spectroscopies of the coexistence of ferromagnetism and superconductivity in $\text{Sr}_2\text{VFeAsO}_3\text{-d}$ "

D. McCann: "Electrostatically Induced Superconductivity under Pressure "

D. Altenfeld: "d+ip wave superconductivity in the AF state of layered cuprates"

DAY 2, JULY 21ST, MONDAY

8:30-11:00

CHAIRMEN: MOREO, PERALI

8:45 A. Fujimori: *"Nature of magnetism and superconductivity in the three-dimensional electronic structures of Fe pnictides"*

9:30 D.L. Feng: *"ARPES study on FeSe/STO and FeSe/BTO films"*

10:15 A. Lanzara: *"Non-Equilibrium momentum dependent dynamic of high temperature superconductors"*

11:00 - 11:15 Coffee Break

11:15 - 11:30 Poster Session

11:30-13:00

CHAIRMEN: LANZARA, FUJIMORI

11:30 L. Perali: *"Band-edge BCS-BEC crossover in a two-band superconductor: physical properties and detection parameters"*

12:00 A. Dolgov

12:30 H. Kontani: *"Charge-Orbital-Spin Multimode Fluctuations due to Vertex Correction in Fe-Based Superconductors, High-Tc Cuprates, and Ruthenates"*

13:00 - 14:45 Lunch

14:45-16:15

CHAIRMEN: FENG, DOLGOV

14:45 I. Eremin: *"Superconductivity from repulsion in multiband layered systems: novel s-wave symmetry in LiFeAs and possible symmetries in BiS₂ superconductors"*

15:15 D. A. Zocco: *"Pauli-Limiting Effects in Multiband Iron-Pnictide Superconductors"*

15:45 F. Hardy: *"Thermodynamics and Multiband Effects in Iron Pnictide Superconductors"*

16:15 - 16:30 Coffee Break

16:30 - 16:45 Poster Session

16:45-18:15

CHAIRMEN: EREMIN, ZOCCO

16:45 N. Markovic: *"Superconductivity in doped bismuth selenide"*

17:15 S. He *"Phase Diagram and High Temperature Superconductivity at 65K in the Single-Layer FeSe Films Revealed by ARPES"*

POSTER SESSION

F. Ahn: *"Superconductivity from repulsion in LiFeAs: novel s-wave symmetry and potential time-reversal symmetry breaking"*

F. Randi: *"Fluctuations in pump-probe experiments"*

S. M. Huang: *"Proximity effect of antiferromagnetism on superconductivity in the phase-separated ternary iron selenides KyFe_{2-x}Se₂"*

DAY 3, JULY 22ND, TUESDAY

8:30-11:00

CHAIRMEN: MARKOVIC, SHAOLONG HE

8:45 C. A. R. Sa de Melo: "Evolution of two-band superconductivity from weak (BCS) to strong (BEC) coupling"

9:30 F. Peeters: "Nanoscale superconductors: influence of quantum confinement"

10:15 M. Capone: "Selective Mottness as a key to iron superconductors"

11:00 - 11:15 Coffee Break

11:00 - 11:15 Coffee Break

11:15 - 11:30 Poster Session

11:30-13:00

CHAIRMEN: Peeters, Capone

11:30 M. Daghofer: "Itinerant multi-orbital models for Pnictide Superconductors"

12:00 M.H. Fang: "Exploration of (Fe, Ni)-Chalcogenide superconductors: Fe-vacancy order, new AFM ground state and Superconductivity"

12:30 Xianggang Qiu: "Infrared spectroscopic studies of iron-based superconductors"

EXCURSION

DAY 4, JULY 23RD, WEDNESDAY

8:30-11:00

CHAIRMAN: *BIANCONI*

8:45 *D.-H. Lee: "Unconventional superconductivity and its intertwined phases"*

9:30. *N. Plakida: "Spin fluctuations and high-temperature superconductivity in cuprates"*

10:15. *G. Seibold: "Electromagnetic response of strongly disordered superconductors"*

11:00 - 11:15 *Coffee Break*

11:15 - 11:30 *Poster Session*

11:30-13:00

CHAIRMEN: *HARDY YANAGISAWA*

11:30 *T. J. Bünnemann: "Variational investigation of superconductivity in two-dimensional Hubbard models"*

12:00 *M. Doria: "Topologically stable gapped state in a layered superconductor"*

12:30 *M. de Llano: "Multicondensate Superconductivity in a Generalized BEC Formalism"*M.

13:00 - 14:45 *Lunch*

14:45-16:15

CHAIRMEN: *SEIBOLD, DORIA*

14:45 *A. M. Oleś. : "Fingerprints of Spin-Orbital Entanglement in Transition Metal Oxides"*

15:15 *L. Balicas: "New developments in superconductivity at high magnetic fields"*

15:45 *D. Innocenti*

16:15 – 16:30 *Coffee Break*

16:30 - 16:45 *ROUND TABLE*

POSTER SESSION

O'Halloran J.: Low energy effective Hamiltonian in iron based superconductors lacking inversion symmetry

DAY 5, JULY 24TH, THURSDAY

8:30-11:00

CHAIRMEN: DE LLANO, BALICAS

8:45 A. Damascelli: "Charge order, Fermi-arc instability, and d-wave bond-order in underdoped cuprates"

9:30 J. Annett: "Triplet Pairing Superconductivity in Sr_2RuO_4 "

10:1. K. I. Wysokiński: Optical Kerr effect in the chiral three band superconductor Sr_2RuO_4

11:00 - 11:15 Coffee Break

11:15 - 11:30 Poster Session

11:30-13:00

CHAIRMEN: DANMASCELLI, WYSOKINSKI

11:30 N. P. Armitage: "Optical Birefringence and Dichroism of Cuprate Superconductors in the THz regime"

12:00 X.F. Jin: "Superconductivity and magnetism in epitaxially grown Bi/Ni bilayers"

12:30 Z. Jiang: "Point-contact spectroscopy study of the pairing symmetry of candidate topological superconductors"

13:00 - 14:45 Lunch

14:45-16:15

CHAIRMEN: JIANG, JIN

14:45 A. Bussmann-Holder: "Evidences of polaron formation in high temperature superconducting copper oxides: phonon renormalization, isotope effects, multiband signatures, NMR and NQR anomalies" D. Innocenti

15:15 M. Minola: "Resonant Soft X-ray Scattering Study of Charge Density Wave Correlations in $\text{YBa}_2\text{Cu}_3\text{O}_{6+x}$ " I 2"

15:45 Coffee Break

16:15 CLOSING SESSION: BIANCONI