The research forefront of high-Tc cuprates

May 23 Tue. - 24 Wed.

Iwamatsu Ryokan, Sakunami Onsen, Sendai, Japan

May 23 Tuesday

12:55-13:00 Greetings, Hiroyuki Yamase (NIMS)

Chairman: S. Tajima (Osaka Univ.)

13:00-13:35 Shin-Ichi Uchida (Univ. of Tokyo)

Experimental investigation of the pseudogap in high-T_c cuprates

13:35-14:10 Takasada Shibaushi (Univ. of Tokyo)

Nematic phase transition at the onset of pseudogap in cuprates

14:10-14:35 Yoshiharu Sakurai (JASRI)

Imaging Fermi surfaces in a high-Tc cuprate by X-ray Compton scattering

14:35-15:00 Yann Gallais (Univ. Paris Diderot, France)

Critical charge fluctuations at the pseudogap end-point in overdoped Bi2212

15:00-15:15 Break

Chairman: M. Ogata (Univ. of Tokyo)

15:15-15:40 Andres Greco (UNR-CONICET, Argentina)

Critical fluctuations near the dCDW instability and the pseudogap phase of cuprates superconductors

15:40-16:05 Shiro Sakai (RIKEN)

Electronic structure of pseudogap and superconducting states in 2D Hubbard model

16:05-16:30 Takami Tohyama (Tokyo Univ. of Science)

Spin and charge excitations in high-Tc cuprates

16:30-16:55 Setsuko Tajima (Osaka Univ.)

Electron-hole asymmetry in the phase diagram of the cuprates: Optical study

16:55-17:20 Tadashi Adachi (Sophia Univ.)

Cu-spin correlation and novel electronic state in the electron-doped high-Tc cuprates

*Each talk should include 10 minutes discussions.

17:20-17:25 photos 19:00-21:00 dinner

Chairmen: H. Eisaki (AIST) & H. Yamase (NIMS)

21:15-23:00 all participants

Free discussions on "What is the pseudogap?"

Chairman: A. Greco (UNR-CONCET)

10:00-10:25 Masaki Fujita (Tohoku Univ.)

Magnetic excitations in cuprate oxide studied by neutron scattering

10:25-10:50 Alfred Q. R. Baron (RIKEN SPring 8)

Investigations of cuprates using IXS

10:50-11:15 Hidekazu Mukuda (Osaka Univ.)

Spin polarization in vortex-solid phase in heavily-underdoped Bi2223

11:15-11:40 Michiyasu Mori (JAEA)

Line-width of antiferromagnetic magnons broaden by electrons correlation

11:40-12:15 Atsushi Fujimori (Univ. of Tokyo)

Fermi surface and phase diagram of electron-doped cuprates

12:15-12:20 photos

12:20-13:30 Lunch

Chairman: Y. Koike (Tohoku Univ.)

13:35-14:00 Dongjoon Song (AIST)

Doping, oxygen content and temperature dependent electronic structure of electron-doped cuprate PLCCO

14:00-14:25 Yoh Kohori (Chiba Univ.)

NMR Study of undoped and electron-doped T'-cuprate superconductors

14:25-14:50 Takayuki Kawamata (Tohoku Univ.)

Electronic state in the undoped cuprate superconductor T'-La_{1.8}Eu_{0.2}CuO₄ studied by muSR

14:50-14:55 Concluding remarks, Yoji Koike (Tohoku Univ.)

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