

IWSRFM2016

SCIENTIFIC PROGRAM

Oral Presentations
Conference room 1, 1F, Segen-site, NIMS
December 20-22, 2016

Dec. 20 (Tuesday)

Chairman: Masashi Tanaka

1:00-1:15 *Opening Remarks*
Yoshihiko Takano

Chairman: Yoshihiko Takano

1:20-1:50 *High Temperature Superconductivity and Crystal Structure of Compressed Sulfur Hydride*
Katsuya Shimizu

1:50-2:10 *Novel Diamond Anvil Cell with B-doped Diamond Electrodes*
Ryo Matsumoto

2:10-2:40 *First-principles study on high-Tc superconductivity in sulfur hydrides under high pressure*
Ryotaro Arita

2:40-3:00 *Lattice strain in superconducting boron-doped diamond*
Taisuke Kageura

3:00-3:30 Poster Session & Coffee Break

Chairman: Takayoshi Yokoya and Hiroyuki Takeya

3:30-4:00 *Magnetic Resonance with Quantum Limited Sensitivity*
Yuimaru Kubo

4:00-4:30 *Quest for the origin of the Big Bang Universe by using cutting-edge superconducting detectors, KIDs*
Osamu Tajima

4:30-5:00 *Research and development of MgB₂ superconductor at National Institute of Materials Physics*
Peter Badica

5:00-5:20 *Selenium capped monolayer NbSe₂ for two-dimensional superconductivity studies*
Seita Onishi

5:20-5:40 *Emergence of domain structure in Ta_{1-x}Fe_xS₂ investigated by STM*
Yuita Fujisawa

5:40-6:00 *Superconductivity and Crystal Structure of LaPt₅As with Extremely Long c Lattice Parameter*
Masaya Fujioka

6:00-7:30 Poster Session & Welcome Party

Dec. 21 (Wednesday)

Chairman: Yunkyu Bang

9:00-9:30 *Designing superconducting and topological flat-band systems*
Hideo Aoki

9:30-10:00 *Establishing $J_{\text{eff}} = 3/2$ Ground State in a Lacunar Spinel GaTa_4Se_8*
MyungJoon Han

10:00-10:20 *Two-Particle Self-Consistent Analysis for the Relationship between Antiferromagnetic Fluctuations and Superconductivity in the d-p model*
Daisuke Ogura

10:20-11:00 Poster Session & Coffee Break

Chairman: Hideo Aoki

11:00-11:30 *Pairing Mechanism of the FeSe-monolayer and related Systems: Dynamical Tuning of Pairing Cutoff Energy*
Yunkyu Bang

11:30-12:00 *Electrochemical tuning of high temperature superconductivity in FeSe thin films: thickness and substrate dependence*
Tsutomu Nojima

12:00-12:20 *Synthesis and Performance Up of Iron Chalcogenide Superconductors by Electrochemical Technique*
Aichi Yamashita

12:20-1:30 Lunch Time with Luncheon Seminar

Chairman: MyungJoon Han

1:30-1:55 *Bulk and single-layer of FeSe*
Shinichi Shamoto

1:55-2:20 *X-ray fluorescence holographic study on high-temperature superconductor $\text{FeSe}_{0.4}\text{Te}_{0.6}$*
Koichi Hayashi

2:20-2:45 *Fabrication and properties of single crystalline FeSe alloys processed by Chemical Vapor Transport technique*
Eyyuphan Yakinci

2:45-3:10 *Tracing the s_{\pm} -symmetry in Co-doped BaFe_2As_2 by controlled disorder*
Kazumasa Iida

3:10-3:30 *Spin excitations of hole-overdoped Fe-based superconductors studied by neutron scattering*
Chul-Ho Lee

3:30-4:00 Poster Session & Coffee Break

Chairman: Yoshikazu Mizuguchi

4:00-4:20 *Effect of ion irradiation on $\text{FeSe}_{0.5}\text{Te}_{0.5}$ superconducting films*
Toshinori Ozaki

4:20-4:45 *On the manifestation of Fermi-liquid-like resistivity and metallic-granularity in Fe-based pnictide and chalcogenide superconductors*
Mohammed ElMassalami

4:45-5:10 *Exploration of superconductivity in the one-dimensional transition metal trichalcogenides*
SaleemJames Denholme

5:10-5:35 *Possible triplet superconductivity in $\text{EtMe}_3\text{P}[\text{Pd}(\text{dmit})_2]_2$*
Tetsuaki Itou

5:35-5:55 *Finite Temperature Effects in Half-metal CrO_2 Studied by Bulk-sensitive Spin-resolved Photoemission Spectroscopy*
Hirokazu Fujiwara

7:00-9:00 Banquet @ Sansui-tei (Bus departs from NIMS at 6:30)

Dec. 22 (Thursday)

Chairman: Hiroyuki Yamase

9:00-9:30 *Different Electronic States at Crystallographically Inequivalent CuO₂ Planes on Multi-layered Cuprates*
Ryotaro Sekine

9:30-10:00 *Knight shifts, nuclear spin-relaxation rates, and spin echo decay times in the pseudogap regime of the cuprates: Simulation and relation to experiment*
Emanuel Gull

10:00-10:20 *Peculiar electronic structures for high T_c superconductivity mediated by spin fluctuations*
Kazuhiko Kuroki

10:20-11:00 Poster Session & Coffee Break

Chairman: Kazuhiko Kuroki

11:00-11:20 *Origin of 44 K Superconductivity in K_xFe_{2-y}Se₂ with Nano-Scale Phase Separation*
Masashi Tanaka

11:20-11:40 *Electronic Structure of A_xFe_{2-y}Se₂ (A=K, Rb) Superconductor Studied by ARPES*
Masanori Sunagawa

11:40-12:10 *Coexisting electronic phases in iron-based superconductors*
Naurang Saini

12:10-1:30 Group Photo & Lunch

Chairman: Emanuel Gull

1:30-1:50 *Coexistence of incommensurate magnetism and superconductivity in the Hubbard model and Fermi surface reconstruction due to incommensurate orders*
Hiroyuki Yamase

1:50-2:15 *Generation of circularly-polarized terahertz waves from Bi2212 intrinsic Josephson junctions*
Itsuhiro Kakeya

2:15-2:40 *Improvement of Physical Properties of Bi-2212 textured materials by Substituting Na and Adding Ag*
Bekir Ozelic

2:40-3:00 *How to cook new BiS₂-based superconductors with a higher T_c*
Yoshikazu Mizuguchi

3:00-3:25 *Laser angle-resolved photoemission spectroscopy of BiS₂-based superconductor*
Yuichi Ota

3:25-4:00 Poster Session & Coffee Break

Chairman: Naurang Saini

4:00-4:25 *NMR/NQR and High Pressure Transport Measurementson BiS₂-Based Superconductors*
Hisashi Kotegawa

4:25-4:50 *Impact of hydrostatic pressure on superconductivity of BiS₂ based layered superconductors*
Rajveer Jha

4:50-5:10 *Superconductivity in CeOBiS₂ without Fluorine doping*
Masanori Nagao

5:10-5:30 *Observation of surface and electronic structure in La(O,F)BiSe₂ by scanning tunneling microscopy/spectroscopy*
Satoshi Demura

5:30-5:50 *High thermoelectric performance in BiS₂-based LaOBiCh₂*
Atsuhiko Nishida

5:50-7:30 Closing & After Party

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Poster Presentations
Conference room 2, 1F, Segen-site, NIMS
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Chairman: Masanori Nagao, Daisuke Ogura

- 1 *Title Photoemission study of LaOBiS₂ and LaOBiSSe*
Yuko Yano
- 2 *Enhancement of Superconductivity in EuFBiS₂ using High Pressure*
Kouji Suzuki
- 3 *Enhancement of T_c by Bi substitution in AgSn_{1-x}Bi_xSe₂*
Yuudai Hijikata
- 4 *NdFeAs(O,F) thin films: processing and transport properties*
Kazumasa Iida
- 5 *Preparation and transport properties of superconducting Sr₂VFeAsO_{3-δ} wires fabricated by ex situ powder-in-tube process II*
Suguru Iwasaki
- 6 *Electronic structure of high quality 3D charge ordered YbFe₂O₄ by Fe 3p–3d resonant photoemission / inverse photoemission spectroscopy*
Tetsushi Fukura
- 7 *Sulfur substitution effect on ZrTe₃*
Ryota Ishio
- 8 *Fabrication and properties of superconducting FeTeSe single core wire and tapes*
Eyyuphan YAKINCI
- 9 *Improvement of Magnetic-field property in Bi-based High Temperature Superconducting Whisker*
Noriyuki Kataoka
- 10 *Angle-resolved photoemission spectroscopy on thermoelectric material SnSe*
Takanobu Nagayama
- 11 *Elemental Substitution Effect of SnSe*
Osamu Ogiso
- 12 *Lead-Substitution Effect on LaO_{0.5}F_{0.5}BiS₂*
Satoshi Otsuki
- 13 *On the local structure and mixed valence in BiS₂-based system*
Naurang Saini
- 14 *Orbital ordered insulating phase in LaTiO₃/LaAlO₃ superlattice*
Jae-Hoon Sim
- 15 *Effect of electrochemical etching and electrostatic doping on superconductivity in FeSe electric-double-layer transistors*
Tsutomu Nojima

- 16 *Synthesis of BiS₂ layered superconductors by fluorination treatment using NaF*
Natsuumi Takahashi
- 17 *Laser angle-resolved photoemission spectroscopy of BiS₂-based superconductor*
Yuichi Ota
- 18 *Boron-doped diamond SQUID with regrowth-induced step edge structure Josephson junction*
Masakuni Hideko
- 19 *High-resolution photoelectron holography of heavily phosphorous-doped diamond*
Aya Takeda
- 20 *Fullerene-based Superconducting Fibers and Wires*
Hiroyuki Takeya
- 21 *Electrical Properties of Carbon-Nanotube-Network Transistors against Proton Microbeam Irradiation*
Satoshi Ishii
- 22 *Size Improvement of Bi-based High Temperature Superconducting Whisker by Vapor-Liquid Hybrid method*
Sayaka Yamamoto
23. *Synthesis of Mercury-Based High-Tc Superconductors Using CsCl*
Hiroshi Hara
24. *Existence of Hump Structure in Temperature Dependence of Resistivity in LaO_{1-x}F_xBiSe₂ Single Crystals*
Naoki Ishida
- 25 *Title Charge excitations in high-temperature cuprate superconductors: charge orders with internal structure and plasmons*
Hiroyuki Yamase
- 26 *First-principles calculation of branching ratio and Heisenberg exchange coupling*
Hongkee Yoon
- 27 *Control of Microstructure and Physical Properties in KxFe₂₋₃Se₂ Superconductor*
Yusuke Yanagisawa
- 28 *Transport Properties of Hydrogen-Terminated Silicon Surface Controlled by Ionic-Liquid Gating*
Yosuke Sasama
- 29 *Microstructure and J_c properties of Ta/monel double-sheathed PIT-processed MgB₂ wires*
Yunchao ZHANG
- 30 *Superconductivity and Crystal Structure of LaPt₅As with Extremely Long c Lattice Parameter*
Masaya Fujioka