IWSDRM2008

SCIENTIFIC PROGRAM

Oral Presentations Conference room 1, 1F, Segen-site, NIMS July 7-9, 2008

July 7 (Monday)

<u>Chairman:</u> 1:00-1:15	Takayoshi Yokoya Opening Remarks Yoshihiko Takano
<u>Chairman:</u> 1:15-1:45	<u>Hiroshi Kawarada</u> Structure and Superconductivity of Isotope-Enriched Boron-Doped Diamond Evgeny Ekimov
1:45-2:15	Core-level photoemission spectroscopy of heavily boron-doped diamond Takayoshi Yokoya
2:15-2:45	Electronic Structure of B-doped Diamond: Effects of B-H Complex and B Dimer Formation Tamio Oguchi
2:45-3:15	Coherent Transport and Superconductivity in Boron-Doped Nanocrystalline Diamond Jiří J. Mareš
3:15-3:45	Poster Session & Coffee Break
<u>Chairman:</u> 3:45-4:15	Ganapathy Baskaran Insulator-metal transition and low-temperature p-type conduction in perovskite BaTiO _{3-x} Taras Kolodiazhnyi
4:15-4:45	Metal transition of one-dimensional polymer nanowire Megumi Akai-Kasaya
4:45-5:15	2D Superconductivity at the LaAlO ₃ /SrTiO ₃ interface Reyren Nicolas
5:15-5:45	Control of physical properties of low carrier density superconductor by local field effect Kei Takahashi
5:45-6:15	Electric field induced superconductivity in a $SrTiO_3$ single crystal with electric double layer transistor Kazunori Ueno

July 8 (Tuesday)

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9:00-9:25	<u>Jiří J. Mareš</u> The relationship between Hall coefficient factor and superconductivity of heavily boron doped diamond. Hiroshi Kawarada
	Superconductivity and localization in hole doped semiconductors Youichi Yanase
	Disorder and Superconductivity in Doped Semiconductors Yukinori Ohta
	Semiconductor-metal transition and electron-phonon coupling in boron-doped diamond Jifeng Yu
10:35-11:05	Poster Session & Coffee Break
11:05-11:30	Kosmas Prassides 11B high-resolution solid-state NMR studies on B-doped diamond Miwa Murakami
	Synthesis and superconducting properties of CaC ₆ Nicolas Emery
	Synthesis conditions of graphite intercalation compound with Ca in molten Li-Ca alloy and its superconducting characteristics Masahiro Toyoda
12:20-1:30	Photo & Lunch
1:30-1:55	<u>Christophe Marcenat</u> High Pressure Synthesis of Boron Doped Diamond and Its Properties: What Superconducts in Polycrystalline Samples? Natalia Dubrovinskaia
	Surface Structure and Superconducting Energy Gap of Boron Doped Diamond Films Probed by STM/STS Terukazu Nishizaki
	STM/STS study of superconducting boron doped diamond Troyanovskiy Alexey
	Electrochemical properties of highly boron-doped diamond electrodes including superconducting diamond Yasuaki Einaga
3:05-3:35	Poster Session & Coffee Break
3:35-4:05	Jun Akimitsu Superconductivity in the $ReFeAsO_{I-\delta}(Re = rare\ earth)$ Systems: A New High- T_c family Zhi-An Ren
	High-Pressure Synthesis of F-free NdFeAs O_{1-y} with $T_c = 54$ K Hijiri Kito
	Theory of High Tc Superconductivity in doped LaOFeAs G Baskaran
	Unconventional pairing in iron arsenide compounds—multiple nesting across multiple Fermi surfaces Seiichiro Onari
6:00-9:00	Banquet. Bus departs from NIMS at 5:45.

July 9 (Wednesday)

Chairman:	Tsuyoshi Tamegai
	Fullerene Superconductivity – an Ongoing Voyage into the Unexpected Kosmas Prassides
9:30-9:55	Physical properties of fullerene materials found by chemical doping and field-effect doping Yoshihiro Kubozono
9:55-10:15	Structure and Superconductivity of H_2 Endohedral C_{60} Katsumi Tanigaki
10:15-10:45	Poster Session & Coffee Break
	<u>Yasuaki Einaga</u> Theory of Inhomogeneous Superconductivity in BDD Naoyuki Yorozu
11:05-11:25	Impurity band structure of boron-doped Diamond Takashi Inushima
11:25-11:45	Superconductivity in low carrier transparent Zinc-doped In_2O_3 films Kazumasa Makise
11:45-1:15	Lunch at Restaurant, Bus departs from NIMS at 11:50.
Chairman:	Zhi-An Ren
	Carbon-doped boron: synthesis and properties of semiconductors in the B-C system Leonid S. Dubrovinsky
1:35-1:55	Boron-doping Effects on Electrical Properties of MWNTs Satoshi Ishii
1:55-2:15	Electronic structures and electron-phonon interactions of the boron-doped carbon nanotubes Takashi Koretsune
2:15-2:40	Superconductivity in doped silicon Christophe Marcenat
2:40-3:10	Poster Session & Coffee Break
<u>Chairman:</u> 3:10-3:35	Katsumi Tanigaki Superconductivity in carrier doped SiC Jun Akimitsu
3:35-3:55	Superconductivity in the wide-gap semiconductor silicon carbide Markus Kriener
3:55-4:20	Two-Gap Superconductivity in $R_2Fe_3Si_5$ and $R_5Ir_4Si_{10}$ (R = Lu , Sc) Tsuyoshi Tamegai
4:20-4:40	Superconductivity of electron doped (Zr,Hf)NCl with independently controlled carrier concentration and interlayer distance Takumi Takano
4:40-5:05	Unconventional superconductivity in doped charge-transfer type band insulators: possible application to β -MNCl(M=Hf,Zr) Kazuhiko Kuroki
5:05-	Closing

Poster Presentations Conference room 2, 1F, Segen-site, NIMS July 7-9, 2008

Chairman: Takahide Yamaguchi, Shunsuke Tsuda

- 1. Lattice expansion and superconductivity in heavily boron-doped diamond thin film Shingo Iriyama
- 2. Diamond Route To High Temperature Superconductivity G Baskaran
- 3 Utilization of high pressure for synthesizing superconductivity in semiconductors: -analysis of Ekimov's method-Koun Shirai
- 4. Localized Nature of Carriers in Boron-Doped Diamond Revealed by Laser Photoemission Spectroscopy
 Kyoko Ishizaka
- 5. Superconducting properties of heavily boron-doped diamond films fabricated by microwave plasma chemical vapor deposition with bias-enhanced nucleation Kazuhiro Yoshida
- 6 Surface Effect on Heavily Boron-Doped Diamond Takeshi Watanabe
- 7. Electronic structure of homo-epitaxial growth boron doped diamond by soft x-rays absorption and emission spectroscopy
 Jin Nakamura
- 8. The Influence of SiC on Critical Current Density of High Pressure Synthesized MgB₂ Superconductors
 Tatiana Prikhna
- 9 Superconductivity in Al doped SiC Takahiro Muranaka
- 10. Superconductivity of Silicon and Germanium Network Polyhedra Jun Tang
- 11. Superconductivity in the AlB_2 -type ternary silicide $YbGa_xSi_{2-x}$ Motoharu Imai
- 12. Multigap superconductivity in Y₂C₃ and La₂C₃ probed by ¹³C-NMR/¹³⁹La-NQR Atsushi Harada
- 13. Effect of oxygen hole and F-doping on superconductivity and structural parameters in the new high-T_c ReFeAsO family
 Guang-Can Che
- 14. Pressure effect on Ca intercalated graphite Fumiaki Tomioka
- 15 Novel CVD growth of boron-doped multi-walled carbon nanotubes Tohru Watanabe
- 16 La214 phase single crystal whiskers Showgo Ogawara
- 17 Macroscopic Quantum Tunneling in La2-xSrxCuO4: Possibility for Phase Qubit above Liquid Helium Temperature
 Yuimaru Kubo