

Monday, November 21, 2005

- 10:00 **Opening Address**
Yoshio Kitaoka
- 10:15 **21a1** **New electronic states in 115 compounds**
Yoshichika Ōnuki
- 10:50 **21a2** **Tuning Unconventional PuMGa₅ and CeMIn₅ Superconductors**
E.D. Bauer
- 11:25 **21a3** **New superconducting phase PuTGa₅ and related compounds**
Franck Wastin
- 12:00-13:30 Lunch
- 13:30 **21p1** **From Skutterud to Japan: the Discovery and exploitation of skutterudite-bearing cobalt ore at Modum, Norway**
Hilde Skauli
- 13:55 **21p2** **Mixed rare earth (Mischmetal) Skutterudites - a route to low thermal conductivity?**
Peter Rogl
- 14:30 **21p3** **Magnetic and thermoelectric properties of AT₄Sb₁₂ (A = Ca, Sr, Ba; T = Fe, Ru, Os)**
Toshiro Takabatake
- 14:55 **21p4** **High Spin Polarization in the Ferromagnetic Alkali-Metal Filled Skutterudites**
Steffen Wirth
- 15:30-16:00 Coffee break
- 16:00 **21p5** **Superconductivity in CeIrIn₅ under chemical and hydrostatic pressures: ¹¹⁵In-NQR study**
Shinji Kawasaki
- 16:35 **21p6** **Low temperature - high field superconducting state in CeCoIn₅: various probes**
Roman Movshovich
- 17:10 **21p7** **NMR Study of the FFLO State in CeCoIn₅**
Ken-ichi Kumagai

Tuesday, November 22, 2005

9:00 **22a1** **Rattling phase transition in the superconducting β -pyrochlore oxide KOs_2O_6**
Zenji Hiroi

9:35 **22a2** **Ultrasonic investigation of rattling and tunneling in clathrate compounds**
Terutaka Goto

10:10-10:40 Coffee break

10:40 **22a3** **Microcalorimetry under Pressure in heavy fermion matter**
Jacques Flouquet

11:15 **22a4** **Lu-dilution studies of YbRh_2Si_2**
Zach Fisk

11:50 **22a5** **Molecular solids - model systems for exploring interacting electrons near critical points**
Michael Lang

12:25-14:00 Lunch

14:00-15:30 Poster session PA

15:30-16:00 Coffee break

16:00 **22p1** **Global Phase Diagram of Magnetic Heavy Fermions**
Qimiao Si

16:35 **22p2** **Magnetism and superconductivity in heavy-fermion systems close to quantum criticality**
Oliver Stockert

17:10 **22p3** **Conventional or Unconventional? What transport can tell us about the nature of metallic quantum criticality**
A. J. Schofield

18:30- Banquet

Wednesday, November 23, 2005

- 9:00 **23a1** **Strongly correlated electron phenomena in Pr-based filled skutterudite compounds**
M. Brian Maple
- 9:35 **23a2** **Novel Superconductivity in the Skutterudite $\text{PrOs}_4\text{Sb}_{12}$: Sb-NMR/NQR studies**
Hideki Tou
- 10:10-10:40 Coffee break
- 10:40 **23a3** **Muon spin rotation and unconventional superconductivity in $\text{PrOs}_4\text{Sb}_{12}$ and its alloys**
Douglas E. MacLaughlin
- 11:15 **23a4** **Superconductivity in $\text{PrOs}_4\text{Sb}_{12}$: on the double transition and multiband effects**
Jean-Pascal Brison
- 11:50 **23a5** **Evolution of superconducting and heavy fermion properties in $\text{Pr}_{1-x}\text{La}_x\text{Os}_4\text{Sb}_{12}$**
Bohdan Andraka
- 12:25 **23a6** **Roles of Multipoles and Excitons in Superconductor $\text{PrOs}_4\text{Sb}_{12}$**
Mikito Koga
- 12:45-14:30 Lunch
14:30-16:00 Poster session PB
16:00-16:30 Coffee break
- 16:30 **23p1** **Multipole order and 4f-electron dynamics in Pr skutterudites**
Yoshio Kuramoto
- 17:05 **23p2** **Magnetism and thermoelectric features of skutterudites $\text{Pr}(\text{Fe,Ni,Co})_4\text{Sb}_{12}$**
Ernst Bauer
- 17:40 **23p3** **Anomalous Field-insensitive Heavy-fermion State in $\text{SmOs}_4\text{Sb}_{12}$**
Yuji Aoki
- 18:05 **23p4** **Realization of a magnetically robust heavy Fermion due to an off-center motion of ions: A model of $\text{SmOs}_4\text{Sb}_{12}$**
Kazumasa Hattori

Thursday, November 24, 2005

- 9:00 **24a1** **Probing the Gap Topology of Anisotropic Superconductors by means of Field-Angle Dependent Specific Heat Measurements**
Toshiro Sakakibara
- 9:35 **24a2** **Anomalous quasiparticle transport and superclean superconducting state of CeCoIn₅**
Yuji Matsuda
- 10:10-10:40 Coffee break
- 10:40 **24a3** **Microscopic studies of electronic structure in mixed state in exotic superconductors—how to identify gap symmetry—**
Kazushige Machida
- 11:15 **24a4** **Anisotropic properties of nodal superconductors in the vortex state revisited**
Ilya Vekhter
- 11:50 **24a5** **Heavy-fermion superconductors without inversion symmetry**
Satoshi Fujimoto
- 12:25-13:30 Lunch
- 13:30 **24p1** **Pressure-induced metal-insulator transition in PrFe₄P₁₂**
Hisashi Kotegawa
- 13:55 **24p2** **Role of p-f Hybridization in the Metal-Nonmetal Transition of PrRu₄P₁₂**
Kazuaki Iwasa
- 14:30 **24p3** **Physical properties of NdOs₄Sb₁₂ and the effects of Nd substitution on the superconductivity of PrOs₄Sb₁₂**
Pei-Chun Ho
- 14:55 **24p4** **Ultrasonic investigation of multipole ordering in SmRu₄P₁₂**
Masahito Yoshizawa
- 15:20 **24p5** **Effect of dynamical Jahn-Teller phonons on multipole properties of filled skutterudites**
Takashi Hotta
- 15:45 **Closing Address**
Hideyuki Sato

- PA01 Ferromagnetic filled skutterudites $\text{KFe}_4\text{Sb}_{12}$ and $\text{NaFe}_4\text{Sb}_{12}$: Evidence for a high spin polarization**
Andreas Leithe-Jasper
- PA02 Magnetic and thermoelectric properties of $\text{AT}_4\text{Sb}_{12}$ (A=Ca, Sr, Ba; T=Fe, Ru, Os)**
Shouta Narazu
- PA03 Electronic Band Structures for Alkaline-Earth-Filled Skutterudites**
Katsuhiko Takegahara
- PA04 Novel Low Temperature Specific Heat Anomaly in Filled Skutterudite Superconductor $\text{LaOs}_4\text{P}_{12}$**
Kazuyuki Matsuhira
- PA05 Electronic structures of Ce-filled skutterudites studied by optical spectroscopy**
Hidekazu Okamura
- PA06 Calculation of Optical Conductivity and Thermoelectric Power of $\text{CeRu}_4\text{Sb}_{12}$ based on a Realistic Tight-binding Model with Strong Correlation**
Tetsuro Saso
- PA07 Electronic structures of Ce-filled skutterudites investigated by photoemission spectroscopy**
Masaharu Matsunami
- PA08 Neutron scattering study of phonon dynamics in a filled skutterudite $\text{CeRu}_4\text{Sb}_{12}$**
Chul-Ho Lee
- PA09 Single crystal growth and electric and magnetic properties of $\text{CeFe}_4\text{Sb}_{12}$**
Hitoshi Sugawara
- PA10 Raman Scattering Study of Filled Skutterudite Compounds**
Norio Ogita
- PA11 Raman scattering study of guest ion motion in cage crystals**
Masayuki Udagawa
- PA12 Rattling and heavy-fermions in the electron-phonon systems with 2nd-order coupling and anharmonic potential**
Keisuke Mitsumoto
- PA13 La motion in $\text{LaOs}_4\text{Sb}_{12}$ revealed by ^{139}La -NMR and ^{121}Sb -NQR studies**
Yusuke Nakai

- PA14 Rattling in $\text{PrOs}_4\text{Sb}_{12}$ studied by neutron diffraction**
Koji Kaneko
- PA15 Ultrasonic dispersion resulting from off-center rattling in heavy fermion superconductor $\text{PrOs}_4\text{Sb}_{12}$**
Yuichi Nemoto
- PA16 Anomalous superconducting transitions in single crystalline $\text{PrOs}_4\text{Sb}_{12}$**
Yuji Aoki
- PA17 Possible superconducting symmetry in $\text{PrOs}_4\text{Sb}_{12}$ probed by muon spin rotation**
Wataru Higemoto
- PA18 Local magnetization anomaly in $\text{PrOs}_4\text{Sb}_{12}$ and its spatial distribution**
Shigeru Kasahara
- PA19 Pressure effect on magnetic phase diagram of $\text{PrOs}_4\text{Sb}_{12}$**
Takashi Tayama
- PA20 Pressure effect of electrical resistivity and magnetoresistance on $\text{PrOs}_4\text{Sb}_{12}$**
Nobuyuki Kurita
- PA21 Neutron scattering study on low energy excitations of the Heavy-Fermion Superconductor $\text{PrOs}_4\text{Sb}_{12}$**
Keitaro Kuwahara
- PA22 Superconducting properties of $(\text{Pr}_x\text{La}_{1-x})\text{Os}_4\text{Sb}_{12}$**
Yuki Yonezawa
- PA23 Superconducting Characteristics on $(\text{Pr}_{1-x}\text{La}_x)\text{Os}_4\text{Sb}_{12}$: $^{121,123}\text{Sb}$ -NQR Study**
Mamoru Yogi
- PA24 Impurity as a smoking gun for the superconducting gap symmetry of Skutterdite heavy fermion compound $\text{PrOs}_4\text{Sb}_{12}$**
Masahide Nishiyama
- PA25 Specific Heat of $\text{La}(\text{Os}_{1-x}\text{Ru}_x)_4\text{Sb}_{12}$**
Gento Yoshino
- PA26 Roles of Multipoles and Excitons in Superconductor $\text{PrOs}_4\text{Sb}_{12}$**
Mikito Koga
- PA27 Estimation of pf-hybridization in Pr skutterudites by using the LMTO band calculation**
Yukihiro Shimizu

- PA28** Valence Fluctuation from f^2 Singlet Crystal-Field Ground State in Generalized Periodic Anderson Model
Ryousuke Shiina
- PA29** Valence Fluctuations in an Extended Periodic Anderson Model
Takashi Sugibayashi
- PA30** Theory of Transport Phenomena in 3D Strongly Correlated Systems Close to a Magnetic Quantum-Critical Point
Hiroshi Kontani
- PA31** Fermi surface study of heavy fermion system CeRu_2Si_2 by LDA+U method
Michi-To Suzuki
- PA32** Change of the Fermi surface in CeIn_3 from localized to itinerant across the critical pressure
Rikio Settai
- PA33** A drastic change of the Fermi surface in CeRhIn_5 and $\text{CeRh}_x\text{Ir}_{1-x}\text{In}_5$
Hiroaki Shishido
- PA34** ^{115}In -NQR study of heavy fermion compound Ce_2RhIn_8
Hideto Fukazawa
- PA35** Thermodynamic Study on the Heavy Fermion Superconductor under High Pressure
Naoyuki Tateiwa
- PA36** Pressure effect on magnetism and superconductivity in CePt_3Si
Tetsuya Takeuchi
- PA37** Superconductivity in the antiferromagnetic state of CeNiGe_3
Tomoyuki Miyoshi
- PA38** Pressure effect of electrical resistivity in CePtAl
Miho Nakashima
- PA39** Symmetry Breaking Superconductivity in UIr
Akihiro Hori
- PA40** Pressure-induced superconductivity in noncentrosymmetric heavy-fermion antiferromagnet CeRhSi_3
Noriaki Kimura

- PB01** Magnetic and electrical properties in $\text{NpFe}_4\text{P}_{12}$
Dai Aoki
- PB02** NMR studies in U- and Np-based filled skutterudite compounds
Yo Tokunaga
- PB03** Magnetic property of pressure-induced insulating-state in $\text{PrFe}_4\text{P}_{12}$
Hiroyuki Hidaka
- PB04** Effect of pressure on the thermal expansion of $\text{PrFe}_4\text{P}_{12}$
Masashi Ohashi
- PB05** On the nature of the quadrupole-ordered phases of $\text{PrFe}_4\text{P}_{12}$: ^{31}P NMR study
Jun Kikuchi
- PB06** Notes on the Hyperfine Interction in Rare-earth Skutterudites
Osamu Sakai
- PB07** Electrical Transport Properties in the High-Field Ordered State of $\text{PrFe}_4\text{P}_{12}$
Hidekazu Aoki
- PB08** ^{31}P NMR studies of $\text{PrFe}_4\text{P}_{12}$ in a new high field phase
Arihito Miyakoshi
- PB09** Magnetic excitations in the heavy electron state of $\text{Pr}_{1-x}\text{La}_x\text{Fe}_4\text{P}_{12}$ ($x=0$ and 0.15)
Lijie Hao
- PB10** Multipolar orderings in skutterudites
Annamaria Kiss
- PB11** On the origin of metal-insulator transition in $\text{PrRu}_4\text{P}_{12}$
Tetsuya Takimoto
- PB12** Structural analysis of $\text{PrRu}_4\text{P}_{12}$ in the metallic phase
Atsushi Miyake
- PB13** Effect of Rh substitution on metal-insulator transition compound $\text{PrRu}_4\text{P}_{12}$
Chihiro Sekine
- PB14** Comparison of the transport properties in $\text{RRu}_4\text{P}_{12}$ ($\text{R}=\text{Pr}, \text{Sm}$)
Daisuke Kikuchi
- PB15** Elastic properties of Filled Skutterudites of $\text{GdRu}_4\text{P}_{12}$ and $\text{TbRu}_4\text{P}_{12}$ with heavy lanthanids
Tomoaki Tanizawa

- PB16** Single crystal growth of the filled skutterudite compounds under high pressures
Yusuke Kawahito
- PB17** Drastic effect of Pr site filling on the physical properties in $\text{PrFe}_4\text{Sb}_{12}$
Kenya Tanaka
- PB18** Crystalline Electric Field State and Kondo Effect in Sm-based Filled Skutterudite Studied by Specific Heat
Kazuyuki Matsuhira
- PB19** Elastic properties of $\text{SmRu}_4\text{P}_{12}$ in pulsed magnetic fields
Peijie Sun
- PB20** Spontaneous Time Reversal Symmetry Breakdown Associated with Metal-Insulator Transition in $\text{SmRu}_4\text{P}_{12}$ probed by μSR
Kenichi Hachitani
- PB21** ^{31}P -NMR and μSR Studies of Filled Skutterudite System $\text{SmRu}_4\text{P}_{12}$
Yoh Kohori
- PB22** NMR studies on Sm- and Yb-based filled skutterudite compounds
Takeshi Mito
- PB23** Electronic transport properties of the anomalous heavy-fermion state in $\text{SmOs}_4\text{Sb}_{12}$
Yoshino Tsunashima
- PB24** High-Field Magnetism of Filled Skutterudite Compounds
Kiyohiro Sugiyama
- PB25** Rattling Motion in the Filled Skutterudite $\text{SmOs}_4\text{Sb}_{12}$
Yoshiki Nakanishi
- PB26** Mixed valence of Sm in $\text{SmOs}_4\text{Sb}_{12}$ probed by XAS and PES
Shin Imada
- PB27** Inelastic x-ray scattering study of filled-Skutterudite compounds
Satoshi Tsutsui
- PB28** Specific Heat Study on Filled Skutterudite $\text{YbFe}_4\text{P}_{12}$
Makoto Wakeshima
- PB29** Magnetic properties of $\text{Yb}_{0.93}\text{Fe}_4\text{Sb}_{12}$
Eric Alleno
- PB30** High pressure synthesis of new filled skutterudites $\text{RRh}_4\text{As}_{12}$
Takahiro Namiki

- PB31 High-pressure and high-temperature synthesis of skutterudite compounds containing Ge in the framework**
Hiroshi Fukuoka
- PB32 Clathrates and clathrate-like compounds of europium and barium**
Yuri Grin
- PB33 Physical Properties of New Cage-structure Compounds $R_2Rh_{15}Si_7$ and $R_3Pt_{23}Si_{11}$**
Yoshinori Tanaka
- PB34 Single crystal growth of plutonium compounds**
Yoshinori Haga
- PB35 Single crystal growth of uranium and thorium compounds**
Tatsuma Matsuda
- PB36 Non-enhancement of thermoelectric-power coefficient of $PrInAg_2$ at low temperatures**
Yosikazu Isikawa
- PB37 Possible Evidence for Quadrupole and Octupole Fluctuations in $PrAg_2In$ with the Cubic Γ_3 Ground State ; NMR Studies**
Hiroshi Tanida
- PB38 Magnetic/Quadrupolar Properties in $PrMg_3$ with the Cubic Γ_3 Ground State**
Hiroshi Tanida
- PB39 Single-Crystal ^{29}Si NMR Studies of Hidden Order in URu_2Si_2**
Shigeru Takagi
- PB40 Theory of de Haas-van Alphen effect in dilute Kondo systems**
Junya Otsuki
- PB41 Interpretation of resonant X-ray scattering in $Ce_{0.7}La_{0.3}B_6$ — Evidence for octupole order**
Hiroaki Kusunose
- PB42 Electronic states near quantum critical point of valence transition**
Shinji Watanabe