

Swiss-Japan Workshop 2012 "Current Topics in Theory of Correlated Materials"

program

all talks : 25 min. + 5 min. discussion

Monday, September 10

16:00-17:00	registration
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17:00-18:00	reception
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Tuesday, September 11

9:15-9:30	opening
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chair: Furusaki

9:30-10:00	Yoichi Yanase	Niigata Univ.	Exotic superconducting phases in locally non-centrosymmetric crystals
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10:00-10:30	Ludwig Klam	ETH	Asymmetric Josephson effect at the interface of non-centrosymmetric superconductors
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10:30-11:00	coffee break
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chair: Tsunetsugu

11:00-11:30	Jun Goryo	ETH	Possible pairing symmetries in SrPtAs
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11:30-12:00	Yoshiki Imai	Saitama Univ.	Transport and magnetic properties of edge states in the multi-band superconductor Sr_2RuO_4
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12:00-12:30	Tetsuya Takimoto	APCTP	Spin excitation spectrum in coexistent phase of AFM+dSC
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12:30-14:00	lunch
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chair: Bruder

14:00-14:30	Kazumasa Hattori	ISSP	Triplet superconductivity near a saturation field
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14:30-15:00	Hiroaki Kusunose	Ehime Univ.	"Mean-field" theory for self-induced vortex lattice in ferromagnetic superconductors
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15:00-15:30	Dima Geshkenbein	ETH	Current voltage curves in the regime of strong pinning
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15:30-16:00	coffee break
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chair: Todo

16:00-16:30	Takashi Hotta	Tokyo Met. Univ.	Quadrupole susceptibility of Gd-based filled skutterudites
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16:30-17:00	Shin Miyahara	APCTP	Nonreciprocal directional dichroism and toroidal magnons in multiferroic materials
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17:00-17:30	Jiawei Mei	ETH	Possible Fermi liquid in the lightly doped Kitaev spin liquid
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Wednesday, September 12

chair: Momoi

9:00-9:30	Sebastian Schmidt	ETH	Non-equilibrium physics of strongly correlated photons
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9:30-10:00	Akihisa Koga	Tokyo Inst. Tech.	Coexistence of the density wave and superfluid states in the optical lattice systems
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10:00-10:30	Akiyuki Tokuno	Univ. Geneva	Spin correlations and doublon production rate for fermionic atoms in modulated optical lattices
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10:30-11:00	coffee break
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chair: Ueda

11:00-11:30 Yuki Kawaguchi Univ. Tokyo Multiple-collapse of a dipolar Bose-Einstein condensate

11:30-12:00 Gianni Blatter ETH Competing structures in dipolar gases

12:00-12:30 Shigeki Onoda RIKEN Quantum spin ice

12:30-14:00 lunch

chair: Wakabayashi

14:00-14:30 Titus Neupert PSI Noncommutative geometry in fractional Chern insulators

14:30-15:00 Tatsuya Fujii ISSP Finite-temperature shot noise in FQH edge states and abelian fractional statistics

15:00-15:30 Christoph Bruder Univ. Basel Interferometric and noise signatures of Majorana fermions in transport experiments

15:30-16:00 coffee break

chair: Onoda

16:00-16:30 Yuki Fuseya Univ. Electro-Commun. Spin-transport phenomena of Dirac electrons in bismuth

16:30-17:00 Takafumi Suzuki Univ. Hyogo Edge states in two dimensional spin and bosonic systems

17:00-17:30 Synge Todo ISSP Quantum Monte Carlo level spectroscopy

18:20- Banquet

Thursday, September 13

chair: Yunoki

9:00-9:30 Rama Chitra ETH Orbital selective crossovers and phase diagram of the asymmetric Hubbard model

9:30-10:00 Takuma Ohashi Osaka Univ. Geometrical frustration effects on the Mott transition in two-dimensional Hubbard models

10:00-10:30 coffee break

chair: Sigrist

10:30-11:00 Junya Otsuki Tohoku Univ. t-J model with random coupling: Numerical solution in infinite dimensions

11:00-11:30 Jonathan Buhmann ETH Transport properties of overdoped cuprates and generic two-dimensional metals

11:30-12:00 Masafumi Udagawa Univ. Tokyo Transport theory of conduction electrons coupled with spin ice

12:00- closing
