2017 January FCMP Japan Tour: JPARC neutron + muon + HEP Tour

REIMEI Workshop on correlated electrons and spintronics
Dinner party for JPARC Tour participants on Jan. 13, 2017

Joined by 22 grad students from the US, Canada and China, plus 11 grad students from Univ. Tokyo and RIKEN
Five-day FCMP Tour/Workshop/Symposium in Japan: January 13-17, 2017

Jan 13: JPARC neutron and muon facility tour
at JPARC, Tokai, Ibaraki: 70 min north of Tokyo by train

Jan 14-16: REIMEI Workshop on Correlated Quantum Matters and Spintronics
at iVil Hall (former Richotte Hall), Tokai Station, Tokai, Ibaraki

Jan 17: FCMP-DMREF Symposium on Mott Transitions and Computational Approaches
at Takeda Hall, University of Tokyo, Tokyo

Jan 13: Naohito Saito (JPARC Director): JPARC facilities and partiel/nuclear physics studies
Kazuhisa Kakurai: JPARC neutron facilities and recent/future physics studies
Wataru Higemoto: JPARC muon facilities and recent/future physics studies
Tour of JPARC instruments: particle physics, neutron scattering, MuSR

Jan 14 – 16: List of speakers (all confirmed)

Sadamichi Maekawa (JAEA ASRC) opening address
Gerrit Bauer (Tohoku IMR) spintronics theory
Chris Bell (Bristol) thin films
Joseph Checkelsky (MIT) spin-dependent transport
Lieh-Jeng Chang (Cheng Kung U, Taiwan) spin ice and Higgs theory
Pengcheng Dai (Rice) neutron scattering in FeAs systems
Daichi Chiba (Tokyo U) Gating manipulation of spins in devices
Yejun Feng (OIST) x-ray studies of quantum critical phenomena
Ben Frandsen (UC Berkeley) MuSR in RENiO3 and (V,Ti)2O3
Atsushi Fujimori (Tokyo U) ARPES / x-ray studies of multi-layer cuprates
Yann Gallais (U Paris / Tokyo U) Raman studies of nematicity in Fe-based systems
Dustin Gilbert (NIST) neutron detection of Skyrmions
Changqing Jin (IOP Beijing) Andreev reflection of a junction of DMS with Pb
Naoya Kanazawa (Tokyo U) Skyrmions in MnSi and MnGe
Gabi Kotliar (Rutgers; via simulcast) computational methods for FeAs and Mott systems
Naoto Nagaosa (Tokyo U / RIKEN) dynamics of Skyrmions
Yusuke Nambu (Tohoku IMR) neutron and muon studies of frustrated magnets
Ni Ni (UCLA) synthesis and characterization of the 112 FeAs
Fanlong Ning (Zhejiang U, China) synthesis, NMR and MuSR of DMS systems
Yoshichika Otani (ISSP) spintronics
Yuya Sakuraba (NIMS) anomalous Nernst effect
Eiji Saito (IMR / ASRC) spin current
Masahiro Sato (Ibaraki) spin Zeebech effect
Takasada Shibauchi (U Tokyo) quantum criticality in FeAs systems
Shinichi Shamoto (JAEA ASRC) neutron studies in correlated magnetic systems
Shik Shin (ISSP) ARPES studies of FeAs systems
Ross Springel (Bristol, UK) Uranium films
Frank Zhao / Jess Crossno (Harvard) Noise measurements using nano-scale devices
Guoqing Zheng (Okayama / Beijing IOP) NMR studies of CuxBi2Se3, FeAs and cuprates
Tadashi Adachi (Sopia) / Zurab Guguchia (Columbia / PSI) Cuprates materials and MuSR
Minoru Yamashita (ISSP) Thermal-Hall effects of spins and phonons
Jan 17: Tokyo University Symposium Speakers (all confirmed)

Yoshinori Tokura (RIKEN, U Tokyo)  Mott transition systems and applications
Masatoshi Imada (Tokyo U)          Theory of multi orbital Mott transitions
Dimitri Basov (Columbia)            nano- and bulk-optics studies of Mott systems
Yoshiteru Maeno (Kyoto U)           current-induced phenomena of Mott Insulator Ca2RuO4
Yasutomo Uemura (Columbia)          first-order quantum criticality of correlated electrons
Dietrich Belitz (U Oregon Eugene)  critical behaviors in itinerant electron and Mott systems
Qikun Xue (Tsinghua U)              quantum anomalous Hall effect and single-layer FeSe
Atsushi Fujimori (Tokyo U)          closing address

There will be an extended poster session on Jan 17 at U Tokyo Symposium, where graduate students and post-docs are encouraged to present posters of their current research activities.

We are hoping to organize a party in the evening of Jan 13 where tour participants can make friends with their international counterparts. There is a banquet in the evening of Jan 15. We also plan to have a beer toast after Jan 17 Symposium to celebrate Qikun Xue’s receiving the Future Science Prize: http://europe.chinadaily.com.cn/china/2016-09/19/content_26831850.htm

Graduate Student and Post-doc Participation from Foreign Institutions

Presently, graduate students and post-docs from the following foreign institutions are planning to attend the consecutive events of Jan 13-17, 2017:

USA: Columbia U (13), Harvard U (2), UC Berkeley (1), UCLA (1), U. Oregon Eugene (1), Rice (1)
China: IOP Beijing (2), Zhejiang U (1)
Canada: McMaster (1)

Registration: No registration fee. Everybody welcome. Fill in forms at
http://asrc.jaea.go.jp/soshiki/gr/Nanoscale-gr/files/RegistrationForm.doc
https://docs.google.com/forms/d/e/1FAIpQLSd3-uNGxsfoylhb8_Zpo8fHqv-l9FZYqAaN9fIDgwQZz8UDyQ/viewform?c=0&w=1

Date: 13 (Fri) Jan. 2017  J-PARC Tour: Conference hall (1F) at Advanced Science Research Center

10:00-12:30  Lecturers: Shoji Nagamiya (Introduction),
Naohito Saito (J-PARC facility and its particle physics)
Tour of particle physics facilities
12:30-14:00  Lunch
14:00-15:30  Lecturers: Kazuhisa Kakurai (neutron),
Wataru Higemoto (muon)
15:30-16:30  Tour guides in MLF: Kenji Nakajima, Yukinobu Kawakita, Ryoichi Kajimoto,
Wataru Higemoto, Kenji M. Kojima
18:00-20:00 Evening party at Japanese restaurant “Hakkaku” (029-284-0405)
https://tabelog.com/ibaraki/A0805/A080501/8001376
REIMEI Workshop

( 8:30 Ueno Tokiwa 10:19 Tokai )

Session chair
14-Jan 10:30 - 12:00 Uemura Maekawa opening (15), Nagaosa (45) Kanazawa (30)
12:00 - 1:30 Lunch
1:30 - 3:30 Belitz Gilbert, Frandsen, Feng, Zheng
3:50 - 5:50 Kambe Otani, Chiba, Springell, Bell

15-Jan 9:30-10:45 Kakurai Kotliar (30) Dai (45)
11:00 - 12:00 Ziman Gallais, Ni Ni
12:00 - 1:30 Lunch
1:30 - 3:30 Fujita Shin, Shibauchi, Nambu, Bauer,
3:50 - 5:50 Mori Fujimori, Jin, Ning, Bo Gu,
7:00 - 9:00 Banquet Hotel Crystal Palace: Speech: Ziman

16-Jan 9:30-11:00 Onoda Chang, Yamashita, Checkelsky,
11:15-12:35 Koike Zhao + Crossno (35), Adachi + Guguchia (45)
12:35 - 1:55 Lunch
1:55 - 4:10 Maekawa Eiji Saito (45), Sato, Sakuraba, Shamoto

( 16:40 Tokiwa 84 from Tokai to Ueno 18:07 )

Tokyo University FCMP Symposium
Jan 17

9:30 -11:00 (Session Chair) Checkelsky Tokura Imada
11:15- 12:45 (Dai) Basov Maeno
12:45 - 2:00 Lunch Poster
2:00 - 3:00 Session
3:00-4:30 (Ziman) Uemura Belitz
4:45 - 5:30 (Maekawa) Xue
5:30 - 5:45 Fujimori closing speech
5:45-6:00 Kampai
1 Amitava Bhattacharyya Ramakrishna Mission Vivekananda University

2 Zhendong CHI University of Tokyo Origin of enhanced magnetization in Co-substituted BiFeO3 studied by x-ray magnetic circular dichroism

3 Yosuke Nonaka University of Tokyo Angle-dependent XMCD study of the magnetite Fe3O4

4 Goro Shibata University of Tokyo Anisotropy of spin-density distribution in La1-xSr_xMnO3 thin films: angle-dependent XMCD study

5 Shoya Sakamoto Univ. of Tokyo Electronic structure of the novel high-Tc ferromagnetic semiconductor (Ga,Fe)Sb

6 Toru Sakai University of Hyogo Quantum Spin Liquid of the Kagome-Lattice Antiferromagnet

7 Dita Puspita Sari RIKEN, Osaka University muSR study on Pairing Symmetry of Organic Superconductor lambda-(BETS)2GaCl4

8 Retno Ashi Osaka University, RIKEN muSR study on magnetic ordered states of pyrochlore iridates Nd2Ir2O7 and Sm2Ir2O7

9 Fahmi Astuti RIKEN Muon Spin Relaxation Study on the Magnetic Order of n-electrons in the Alkali metal Superoxide

10 Julia Angel RIKEN, Hokkaido University μSR Studies on h8- and d8-β-(BEDT-TTF)2ICl2

11 Suguru Nakata Univ. of Tokyo Search for a nematic state in the cuprate superconductor Bi2212 by angle-resolved photoemission spectroscopy

12 Keisuke Koshiishi Univ. of Tokyo The electronic structure of BaFe2As2 in the electronic “nematic” phase revealed by angle-resolved photoemission

13 Zizhou Gong Columbia University Skyrmion phase transition and low-temperature excitations in MnGe studied by MuSR

14 Keisuke Ikeda University of Tokyo Magnetic moment anisotropies of L10-ordered FePt films studied by x-ray magnetic circular dichroism.

15 Yi Lin Columbia University Observation of Image Potential State in Oxygen-Intercalated Graphene on Iridium by Two-Photon-Photoemission Spectroscopy

16 Guo-qiang Zhao Institute of Physics, Chinese Academy of Science Single crystal growth and Andreev reflection junction of diluted magnetic semiconductor (BaK)(ZnMn)2As2

17 Zurab Guguchia Columbia University Direct evidence for the emergence of a pressure induced nodal superconducting gap in the iron-based superconductor Ba0.65Rb0.35Fe2As2

18 Masafumi Horio University of Tokyo ARPES of the superconducting parent compound of the electron-doped cuprates Pr2CuO4

19 Keita Hagiwara University of Tokyo Energy gap of the superconducting PrFeAsO1-y studied by ARPES

20 Eve Emmanouilidou UCLA Transport properties of the Dirac line-node semimetals CaTX

21 Wencan Jin Columbia University Applications of LEEM/PEEM in electronic structure and surface physics of two-dimensional materials

22 Shengli Guo Zhejiang University A New Diluted Magnetic Semiconductor U(Zn,Mn,Cu)As with Mn and Cu doping at the same Zn sites

23 Sky Cheung Columbia University Understanding Magnetism and Superconductivity in Iron Pnictide Superconductors using Muon Spin Relaxation

24 Zurab Guguchia Columbia University Investigating the quantum phase transition in Mott insulator BaCoS2 tuned by pressure and Ni-substitution

25 Yusuke Nomura University of Tokyo Exotic s-wave superconductivity in alkali-doped fullerides: equilibrium and non-equilibrium properties

26 Yipeng Cai McMaster University muSR study of spin freezing and persistent spin dynamics in NaCaNi2F7

27 Erick Andrade Columbia University Strain and Scanning Tunneling Microscopy – Studying Nematicity in NaFeAs

28 Huiyuan Man University of Tokyo Quantum fluctuations in the Kagome spin ice state of Pr2Zr2O7

29 Giuliano Chiriaci Columbia University Destabilizing a Mott insulator with an electric field: 1D density wave model
Hotels (nights of):
Jan 13, 14, 15: Hotel Terrace the Garden Mito
Jan 16, 17: Akihabara Washington Hotel in Tokyo

Grad students and postdocs accommodation:
Jan 12, 13, 14, 15: JPARC Dormitory (Foreign participants)
Jan 13, 14, 15: Katsuta Crystal Hotel (Japanese participants)
Jan 16, 17: Akihabara Washington Hotel in Tokyo