

FIRST-QS²C WS on "Emergent Phenomena of Correlated Materials"

Shinagawa, Japan, November 13-16, 2013

| | Nov. 13 (Wed) | Nov. 14 (Thu) | Nov. 15 (Fri) | Nov. 16 (Sat) | | | | | |
|-------|-------------------------------------|--|---|--|----------------|---|-------------|--------------|--|
| 9:00 | Registration | | | | 9:00 | | | | |
| 9:30 | Registration | | | | 9:30 | | | | |
| 10:00 | Registration | | | | 10:00 | | | | |
| 10:00 | Opening | | | | 10:00 | | | | |
| 10:30 | Spintronics I (Chair: Kawasaki) | Topological Phenomena I (Chair: Nagaosa/Tatara) | Qi-Kun Xue | Interface (Chair: Iwasa/Hwang) | J.-M. Triscone | Quantum Beam and Bulk Materials (Chair: Arita/Taguchi) | B. Keimer | 10:00 | |
| 10:30 | | | S. S. P. Parkin | | N. P. Ong | | M. Kawasaki | T. Kimura | 10:30 |
| 11:00 | | | A. H. MacDonald | | Break 20 | | H. Y. Hwang | Break 20 | 11:00 |
| 11:30 | | | Break 20 | | H. Fukuyama | | A. Morpurgo | Y. Ando | 11:30 |
| 12:00 | | | Y. Tokura | | N. Kawakami | | Y. Iwasa | S. Horiuchi | 12:00 |
| 12:00 | | | N. Nagaosa | | M. S. Bahrany | | T. Hasegawa | F. Kagawa | 12:00 |
| 12:30 | Lunch Break | | | | 12:30 | | | | |
| 13:00 | Lunch Break | | | | 13:00 | | | | |
| 13:30 | Lunch Break | | | | 13:30 | | | | |
| 14:00 | Lunch Break | | | | 14:00 | | | | |
| 14:00 | Spintronics II (Chair: Yunoki) | Poster Session | T. Rasing | Photonics and Multiferroics (Chair: Hasegawa/Arima) | Closing | | | 14:00 | |
| 14:30 | | | S. Maekawa | | | | | A. Loidl | 14:30 |
| 15:00 | | | G. Tatara | | | | | Y. Takahashi | 15:00 |
| 15:00 | Y. Motome | | N. Ogawa | | | | | 15:30 | |
| 15:30 | Break 20 | | F. Nori | | | | | 16:00 | |
| 16:00 | Superconductor (Chair: Furusaki) | | Topological Phenomena II (Chair: Kawakami) | | | | | Break 10 | Photonics and Multiferroics (Chair: Hasegawa/Arima) |
| 16:00 | | Z.-X. Shen | | C. Pfleiderer | 16:30 | | | | |
| 16:30 | | Y. Kitaoka | | X. Z. Yu | 17:00 | | | | |
| 17:00 | | R. Arita | | S. Ishiwata | 17:30 | | | | |
| 17:30 | | S. Shin | | A. Furusaki | 18:00 | | | | |
| 17:30 | T. Hanaguri | S. Yunoki | 18:30 | | | | | | |
| 18:00 | Break 20 | | | | 18:00 | | | | |
| 18:00 | (Chair: Hanaguri) | Break 10 | Y. Maeno | Photonics and Multiferroics (Chair: Hasegawa/Arima) | Closing | | | 18:00 | |
| 18:30 | | | Selected Poster Previews | | | | | M. Bibes | 18:30 |
| 19:00 | Banquet | | | | 19:00 | | | | |
| 19:30 | Banquet | | | | 19:30 | | | | |
| 20:00 | Banquet | | | | 20:00 | | | | |
| 20:30 | Banquet | | | | 20:30 | | | | |

Day 1: Wednesday, Nov. 13

10:00 - 10:10 **Opening**

10:10 - 12:20 **[Spintronics I]** Chair: Kawasaki

- W01 **Stuart S.P. Parkin** (IBM Almaden Research Center) *30min+5min*
Giant reversible structural changes in epitaxial films of VO₂ induced by ionic liquid gating
- W02 **Allan H. MacDonald** (University of Texas) *30min+5min*
Anomalous hall effect revisited

11:20 - 11:40 *Coffee Break*

- W03 **Yoshinori Tokura** (RIKEN CEMS) *15min+5min*
3D topological magnets
- W04 **Naoto Nagaosa** (RIKEN CEMS) *15min+5min*
Theory of skyrmion dynamics

12:20 - 14:00 *Lunch Break*

14:00 - 15:10 **[Spintronics II]** Chair: Yunoki

- W05 **Sadamichi Maekawa** (JAEA) *30min+5min*
Spin current generation and manipulation
- W06 **Gen Tatara** (RIKEN CEMS) *15min+5min*
Emergent spin electromagnetism induced by magnetization textures in the presence of spin-orbit interaction
- W07 **Yukitoshi Motome** (University of Tokyo) *12min+3min*
Breathing-type bond order and spin Hall effect in itinerant spin ice

15:10 - 15:30 *Coffee Break*

15:30 - 17:40 **[Superconductor]** Chair: Furusaki

- W08 **Zhi-Xun Shen** (Stanford University) *30min+5min*
Recent ARPES results from cuprates and FeSe/STO systems
- W09 **Yoshio Kitaoka** (Osaka University) *30min+5min*
Recent topics on high-*T_c* superconductivity in pnictides and cuprates
- W10 **Ryotaro Arita** (University of Tokyo) *15min+5min*
Superconducting density functional theory for doped band insulator
- W11 **Shik Shin** (ISSP, University of Tokyo) *15min+5min*
Study on ion-pnictide and heavy fermion superconductors by laser ARPES
- W12 **Tetsuo Hanaguri** (RIKEN CEMS) *15min+5min*
Superconductivity and orbital physics in FeSe

17:40 - 18:00 *Coffee Break*

Day 1: Wednesday, Nov. 13

18:00 - 19:00

[Selected Poster Previews]

Chair: Hanaguri

- P08 **Hiroki Wadati** (University of Tokyo)
Coexistence of multiple magnetic orderings in SrCo₆O₁₁ revealed by resonant soft x-ray scattering
- P20 **Sandor Bordacs** (University of Tokyo)
Landau level spectroscopy of Dirac electrons in a polar semiconductor with giant Rashba spin splitting
- P27 **Masao Nakamura** (RIKEN CEMS)
Bidirectional photocurrent generation and induced polar state in heterojunctions of LaFeO₃
- P32 **Kei S. Takahashi** (RIKEN CEMS)
High mobility two-dimensional electron gas in δ -doped SrTiO₃ grown by gas source MBE
- P35 **Akihito Sawa** (AIST)
Electrolyte-gated correlated electron oxide transistors
- P50 **Yusuke Tokunaga** (RIKEN CEMS)
Magnetic biasing of *P-E* loop in a multiferroic ferrite
- P64 **Toru Sakai** (JAEA SPring-8)
Spin nanotubes
- P71 **Alexander V. Rozhkov** (ITAE RAS)
Electronic phase separation in doped pnictides
- P85 **Wataru Koshibae** (RIKEN CEMS)
Dynamics of quenched chiral magnet - creation and annihilation of skyrmions
- P94 **Ryutaro Yoshimi** (University of Tokyo)
Resonant tunneling via Dirac electron states in a topological-insulator / semiconductor junction
- P96 **Bohm-Jung Yang** (RIKEN CEMS)
Emergent topological phenomena in thin films of pyrochlore iridates

Day 2: Thursday, Nov. 14

9:40 - 12:20 [**Topological Phonemona I**] Chair: Nagaosa/Tatara

T01 **Qi-kun Xue** (Tsinghua University) 30min+5min
Quantum anomalous Hall effect in a magnetic topological insulator

T02 **Nai Phuan Ong** (Princeton University) 30min+5min
Beyond Z₂-TRI topological insulators

10:50 - 11:10 *Coffee Break*

T03 **Hidetoshi Fukuyama** (Tokyo University of Science) 30min+5min
Spin-Hall effect and diamagnetism of Dirac electrons

T04 **Norio Kawakami** (Kyoto University) 15min+5min
Edge states in correlated topological insulators

T05 **Mohammad S. Bahramy** (University of Tokyo) 12min+3min
Electrical control of valley spin polarization in WSe₂

12:20 - 14:00 *Lunch Break*

14:00 - 15:50 [**Poster Session**]

15:50 - 16:00 *Break*

16:00 - 18:20 [**Topological Phonemona II**] Chair: Kawakami

T06 **Christian Pfleiderer** (Technische Universität München) 30min+5min
Emergence, stability and decay of skyrmions in chiral magnets

T07 **Xiuzhen Yu** (RIKEN CEMS) 12min+3min
Spintronics in topological spin texture

T08 **Shintaro Ishiwata** (University of Tokyo) 12min+3min
Novel helical spin texture in cubic perovskite SrFeO₃

T09 **Akira Furusaki** (RIKEN CEMS) 15min+5min
Stability of surface states of (weak or crystalline) topological insulators

T10 **Seiji Yunoki** (RIKEN CEMS) 15min+5min
Novel unconventional superconductivity in $J_{\text{eff}}=1/2$ Mott insulator for Ir oxides

T11 **Yoshiteru Maeno** (Kyoto University) 30min+5min
Mott transition in Ca₂RuO₄ under non-equilibrium: conditions

18:20 - 18:30 *Break*

18:30 - 20:30 **Banquet**

Day 3: Friday, Nov. 15

9:40 - 12:30 **[Interface]** Chair: Iwasa/Hwang

- F01 **Jean-Marc Triscone** (University of Geneva) *30min+5min*
2-dimensional superconductivity at the LaAlO₃/SrTiO₃ interface
- F02 **Masashi Kawasaki** (University of Tokyo and RIKEN CEMS) *15min+5min*
Even-denominator fractional quantum Hall states in ZnO
- F03 **Harold Y. Hwang** (Stanford University and RIKEN CEMS) *15min+5min*
Quantum transport in 2D single and bilayer SrTiO₃ heterostructures

10:55 - 11:15 *Coffee Break*

- F04 **Alberto Morpurgo** (University of Geneva) *30min+5min*
High-quality multi-terminal suspended devices and even-denominator fractional quantum Hall effect in bilayer graphene
- F05 **Yoshihiro Iwasa** (University of Tokyo and RIKEN CEMS) *15min+5min*
Field effect on correlated electron systems
- F06 **Tatsuo Hasegawa** (AIST) *15min+5min*
Modulation spectroscopy of interface charge transport in correlated organic semiconductors

12:30 - 14:00 *Lunch Break*

14:00 - 18:40 **[Photonics and Multiferroics]** Chair: Hasegawa/Arima

- F07 **Theo Rasing** (Radboud University Nijmegen) *30min+5min*
- F08 **Alois Loidl** (Augsburg University) *30min+5min*
Electromagnons
- F09 **Youtarou Takahashi** (University of Tokyo) *12min+3min*
Colossal dynamical magnetoelectric effect of electromagnons in multiferroic materials
- F10 **Naoki Ogawa** (RIKEN CEMS) *12min+3min*
Spin photocurrent in Rashba semiconductors
- F11 **Franco Nori** (RIKEN CEMS) *15min+5min*
(1) Majorana fermions in pinned vortices, and (2) phase separation in systems with imperfect nesting, including pnictides and graphene

16:00 - 16:20 *Coffee Break*

- F12 **Nicola Spaldin** (ETH Zürich) *30min+5min*
Monopoles in magnetoelectrics
- F13 **Makoto Gonokami** (University of Tokyo) *30min+5min*
Production of ultracold bulk excitons for stabilizing a trapped Bose-Einstein condensate
- F14 **Yasujiro Taguchi** (RIKEN CEMS) *15min+5min*
Magnetic control of polarization and lattice structure
- F15 **Shinichiro Seki** (RIKEN CEMS) *12min+3min*
Magnetoelectric skyrmions in chiral insulating ferrimagnet Cu₂OSeO₃
- F16 **Manuel Bibes** (CNRS) *30min+5min*
Putting a strain on BiFeO₃

Day 4: Saturday, Nov. 16

9:40 - 12:50

[Quantum Beam and Bulk Materials]

Chair: Arita/Taguchi

S01 **Bernhard Keimer** (Max-Planck-Institut) *30min+5min*
Spin and charge order in oxide superlattices

S02 **Tsuyoshi Kimura** (Osaka University) *30min+5min*
Observation of multipole helix-chiral domains by resonant x-ray scattering

10:50 - 11:10 *Coffee Break*

S03 **Yoichi Ando** (University of Osaka) *30min+5min*
Experimental studies of topological insulators and superconductors

S04 **Sachio Horiuchi** (AIST) *12min+3min*
Development of donor-acceptor-type organic ferroelectrics

S05 **Fumitaka Kagawa** (RIKEN CEMS) *12min+3min*
Switchable polarization dependent on multidomain topology in a uniaxial organic ferroelectric

S06 **Youichi Murakami** (KEK) *15min+5min*
Resonant soft x-ray scattering studies in SCE system

S07 **Taka-hisa Arima** (University of Tokyo and RIKEN CEMS) *15min+5min*
X-ray imaging of all-in/all-out magnetic domains in pyrochlore

12:55 - 13:05

Closing

Poster Session (Day 2: Nov. 14, 14:00 - 15:50)

- P01 **Runze Yu** (Tokyo Institute of Technology)
Pb-Cr charge transfer in $\text{Pb}_{1-x}\text{Sr}_x\text{CrO}_3$ as the origin of volume collapse
- P02 **Markus Kriener** (RIKEN CEMS)
Thermoelectric properties of $(\text{W},\text{Ta})_1(\text{Se},\text{Te})_2$
- P03 **Hajime Hojo** (Tokyo Institute of Technology)
Enhanced piezoelectricity and stabilization of giant tetragonal phase in $\text{BiFe}_x\text{Co}_{1-x}\text{O}_3$
- P04 **Masaki Uchida** (University of Tokyo)
Electronic structure and its temperature evolution in Ba_2IrO_4 thin films as probed by angle-resolved photoemission spectroscopy
- P05 **Takafumi Hatano** (RIKEN CEMS)
Control of transport properties in half-doped manganites system
- P06 **Daisuke Uematsu** (University of Tokyo)
Effect of trigonal distortion of IrO_6 on 5d states in $\text{Eu}_2\text{Ir}_2\text{O}_7$
- P07 **Kensuke Kobayashi** (KEK)
Ferroelectric to antiferroelectric structural phase transition in $[\text{H-6,6}'\text{-dmbp}][\text{Hca}]$
- P08 **Hiroki Wadati** (University of Tokyo)
Coexistence of multiple magnetic orderings in $\text{SrCo}_6\text{O}_{11}$ revealed by resonant soft x-ray scattering
- P09 **Hajime Yamamoto** (Tokyo Institute of Technology)
Weak ferromagnetism in $\text{BiFe}_{1-x}\text{Co}_x\text{O}_3$ induced by the spin structure change
- P10 **Takehito Suzuki** (RIKEN CEMS)
Thermoelectric properties of filled IrSb_3
- P11 **Toshiya Ideue** (University of Tokyo)
Transport properties of polar semiconductor BiTeI under pressure
- P12 **Yusuke Serizawa** (Tokyo Metropolitan University)
Electromagnetic response of Rashba systems
- P13 **Debraj Choudhury** (RIKEN CEMS)
Enhanced magnetocaloric effect due to strong-coupling between magnetism and structure in $\text{MnCo}_{1-x}\text{Zn}_x\text{Ge}$
- P14 **Joji Nasu** (University of Tokyo)
Finite-T phase transition to quantum spin liquid in a 3D Kitaev model
- P15 **Makoto Naka** (RIKEN CEMS)
Long-period charge fluctuation and charge dynamics in $\theta\text{-(BEDT-TTF)}_2\text{X}$
- P16 **Keisuke Matsuura** (University of Tokyo)
Magnetic excitations in MnV_2O_4 studied by inelastic neutron scattering
- P17 **Atsunori Doi** (University of Tokyo)
Insulator-metal transition and spin state fluctuation in LaCoO_3

- P18 **Nao Minami** (University of Tokyo)
Quantum relaxation dynamics of domain walls in hydrogen-bonded imidazole ferroelectrics
- P19 **Koji Ikeura** (University of Tokyo)
Large enhancement of thermopower in semimetallic β -MoTe₂ by chemical substitution
- P20 **Sandor Bordacs** (University of Tokyo)
Landau level spectroscopy of Dirac electrons in a polar semiconductor with giant Rashba spin splitting
- P21 **Satoshi Matsuoka** (AIST)
Band coherence analysis of correlated polymer semiconductors
- P22 **Robert Peters** (Kyoto University)
Artificially layered heavy fermion systems
- P23 **Masato Ito** (University of Tokyo)
EDL transistor characteristics with BaTiO₃ channels
- P24 **Tomoki Tambo** (University of Tokyo)
Tuning FQHE in oxide by air-gap gating
- P25 **Zhigao Sheng** (RIKEN CEMS)
Magneto-tunable photocurrent in manganite based heterojunctions
- P26 **Keisuke Shibuya** (AIST)
Strain effect on the metal-insulator transition temperature in VO₂ thin films
- P27 **Masao Nakamura** (RIKEN CEMS)
Bidirectional photocurrent generation and induced polar state in heterojunctions of LaFeO₃
- P28 **Neeraj Kumar** (AIST)
Photolithography of Parylene-C/Ta₂O₅ hybrid gate insulator for future Mott transistors
- P29 **Jobu Matsuno** (RIKEN CEMS)
Tuning of the spin-orbit Mott state by tailoring superlattices
- P30 **Joseph Falson** (University of Tokyo)
Even-denominator fractional quantum Hall physics in ZnO
- P31 **Atsushi Fukuchi** (AIST)
Ferroelectric resistive switching induced in a dielectric/ferroelectric heterostructure
- P32 **Kei S. Takahashi** (RIKEN CEMS)
High mobility two-dimensional electron gas in δ -doped SrTiO₃ grown by gas source MBE
- P33 **Masaki Nakano** (Tohoku University)
Electric-field induced giant structural/spectral changes in VO₂
- P34 **Yuya Matsubara** (University of Tokyo)
Polar metallic state in La-doped BaTiO₃ film grown by gas source molecular beam epitaxy

- P35 **Akihito Sawa** (AIST)
Electrolyte-gated correlated electron oxide transistors
- P36 **Takahiro C. Fujita** (University of Tokyo)
Octupole magnetic ordering and magnetotransport properties in $\text{Eu}_2\text{Ir}_2\text{O}_7$ thin films
- P37 **Yuhki Kohsaka** (RIKEN CEMS)
Visualizing a p-n junction of two-dimensional electronic gases on a polar semiconductor BiTeI
- P38 **Tomoyuki Tsuyama** (University of Tokyo)
X-ray magnetic circular dichroism for ferromagnetic insulator of BaFeO_3 thin film
- P39 **Qing-Yan Wang** (RIKEN CEMS)
Compressively strained EuTiO_3 films grown by gas source MBE
- P40 **Denis Maryenko** (RIKEN CEMS)
 $\text{Mg}_x\text{Zn}_{1-x}\text{O}/\text{ZnO}$ transport at large tilt angle and in a magnetic field up to 33 Tesla
- P41 **Yuki Noda** (AIST)
Inkjet printing of single-crystal organic semiconductors: initial microfluid dynamics in double-shot inkjet technique
- P42 **Toshikazu Yamada** (AIST)
Developing innovative printing process for high-resolution metal wiring with nanometal inks
- P43 **Sunao Shimizu** (RIKEN CEMS)
Electrically tunable anomalous Hall effect in ultra-thin films of Pt
- P44 **Hiromi Minemawari** (AIST)
Inkjet printing of single-crystal organic semiconductors: film growth and field-effect characteristics
- P45 **Nobuyuki Abe** (University of Tokyo)
Magnetoelectric effect in $\text{Ca}_2\text{Fe}_{2-x}\text{Al}_x\text{O}_5$
- P46 **Shingo Toyoda** (University of Tokyo)
Spin-orbital coupled state in CuB_2O_4
- P47 **Alexandra Kalashnikova** (Ioffe Institute)
Genuine crystal-field parameters of copper metaborate and related cuprates
- P48 **Masahiro Rikiso** (University of Tokyo)
Magneto-optical effect in chiral magnetic insulator Cu_2OSeO_3
- P49 **Shunsuke Kibayashi** (University of Tokyo)
Magnetochiral dichroism resonant with electromagnon in a helimagnet
- P50 **Yusuke Tokunaga** (RIKEN CEMS)
Magnetic biasing of P - E loop in a multiferroic ferrite
- P51 **Hideo Kawaguchi** (Tokyo Metropolitan University)
Coupling between spin electromagnetic field and electromagnetic wave

- P52 **Yukitoshi Motome** (University of Tokyo)
Toroidal ordering in metals: band shift and magnetotransport
- P53 **Takaaki Sudayama** (KEK)
Artificial superlattice Mn thin film with large magneto-resistance studied by resonant soft x-ray scattering under magnetic field
- P54 **Khanh D. Nguyen** (Tohoku University)
Magneto-electric effect in non-centrosymmetric (Cu,Ni)B₂O₄
- P55 **Yuichi Yamasaki** (KEK)
X-ray induced phase transition between multiferroic states in a perovskite manganite
- P56 **Yuki Ohuchi** (University of Tokyo)
Photo-induced sign inversion of anomalous Hall effect in EuO thin films
- P57 **Neill Lambert** (RIKEN CEMS)
Photon-mediated electron transport in hybrid circuit-QED
- P58 **Takuya Satoh** (University of Tokyo)
Optical excitation of spin oscillations in NiO
- P59 **Jun'ya Tsutsumi** (AIST)
Photocarrier generation via charge-transfer excitation in correlated polymer semiconductors
- P60 **Yurika Kubo** (Waseda University)
Tunable 'rotons' in 2D antiferromagnets
- P61 **Daisuke Morikawa** (RIKEN CEMS)
Crystal chirality and skyrmion helicity in MnSi and (Fe,Co)Si as determined by transmission electron microscopy
- P62 **Aron Beekman** (RIKEN CEMS)
Long-range interactions between skyrmions via magnon exchange
- P63 **Yoichi Nii** (RIKEN CEMS)
Elastic properties of MnSi
- P64 **Toru Sakai** (JAEA SPring-8)
Spin nanotubes
- P65 **Kiyou Shibata** (University of Tokyo)
Size and helicity of skyrmions in helimagnets Mn_{1-x}Fe_xGe
- P66 **Yuta Sasaki** (Tokyo Metropolitan University)
Electrical control of transmitted spin wave in ferromagnetic metal and insulator junction system
- P67 **Nobuhiko Taniguchi** (University of Tsukuba)
Electrically induced spin current in a nonequilibrium spin-orbit nano interferometer
- P68 **Henri M. Saarikoski** (RIKEN CEMS)
Control of spin geometric phase in semiconductor quantum rings

- P69 **Masashi Kubota** (RIKEN CEMS)
Manipulation of magnetic domain by local stress
- P70 **Tomoyuki Yokouchi** (University of Tokyo)
Skyrmion stability in thin films of $\text{Mn}_{1-x}\text{Fe}_x\text{Si}$ as investigated by topological Hall effect
- P71 **Alexander V. Rozhkov** (ITAE RAS)
Electronic phase separation in doped pnictides
- P72 **Seiichiro Suga** (University of Hyogo)
Extended s-wave superfluid in repulsively interacting three-component fermionic atoms in optical lattices
- P73 **Sho Nakosai** (University of Tokyo)
p-wave superconducting states with magnetic moments on a conventional s-wave superconductor
- P74 **Ryosuke Akashi** (University of Tokyo)
Impact of plasmons on superconducting transition temperature in layered nitrides: Ab initio study
- P75 **Kosuke Saito** (University of Tokyo)
Fermi level tuning of layered pnictogen chalcogenides by electrochemical Cu-intercalation
- P76 **Hiroshi Watanabe** (RIKEN CEMS)
Novel $J_{\text{eff}}=1/2$ insulator and possible superconductivity in Sr_2IrO_4 with large spin-orbit coupling
- P77 **Ryo Fukaya** (Tokyo Institute of Technology)
Ultrafast electronic phase control of two-leg ladder cuprate $\text{Sr}_{14-x}\text{Ca}_x\text{Cu}_{24}\text{O}_{41}$
- P78 **Hsiang-Lin Liu** (National Taiwan Normal University)
Lattice dynamics and electron-phonon interactions in $\text{FeSe}_{0.35}\text{Te}_{0.65}$: Iron isotope effect
- P79 **Hiroshi Oike** (RIKEN CEMS)
A doped organic superconductor crossing the Mott boundary
- P80 **Hideaki Sakai** (University of Tokyo)
Variation of superconducting properties with electron doping in SrFBiS_2
- P81 **Giorgos Giavaras** (RIKEN CEMS)
Tunable graphene quantum dots
- P82 **Hiroyoshi Nobukane** (Hokkaido University)
Majorana edge transport in Sr_2RuO_4
- P83 **Yositake Takane** (Hiroshima University)
Unified description of Dirac electrons on a curved surface of strong topological insulators
- P84 **Toshikazu Kariyado** (University of Tsukuba)
Symmetry protected Z_2 Berry phase in massless Dirac fermion systems

- P85 **Wataru Koshibae** (RIKEN CEMS)
Dynamics of quenched chiral magnet - creation and annihilation of skyrmions
- P86 **Alexander L. Rakhmanov** (ITAE RAS)
Majorana fermions in pinned vortices
- P87 **Artem Sboychakov** (ITAE RAS)
Antiferromagnetic states and phase separation in doped AA-stacked graphene bilayers
- P88 **Kliment Kugel** (ITAE RAS)
Driven conductance of graphene under effect of strong AC field
- P89 **Shimpei Goto** (Waseda University)
Phenomenology for loop-current phases
- P90 **Igor Proskurin** (University of Tokyo)
Thermoelectric transport of massless Dirac fermions in magnetic field
- P91 **Katsuya Iwaya** (RIKEN CEMS)
STM studies of GeBi_2Te_4 and SnBi_2Te_4
- P92 **Linda Ye** (University of Tokyo)
Transport study of ternary topological insulators $\text{Ge}_x\text{Sn}_{1-x}\text{Bi}_2\text{Te}_4$
- P93 **Yingshuang Fu** (RIKEN CEMS)
Real-space imaging of Dirac-Landau orbits in Bi_2Se_3
- P94 **Ryutaro Yoshimi** (University of Tokyo)
Resonant tunneling via Dirac electron states in a topological-insulator / semiconductor junction
- P95 **Takahiro Morimoto** (RIKEN)
Classification of topological insulators with reflection symmetries
- P96 **Bohm-Jung Yang** (RIKEN CEMS)
Emergent topological phenomena in thin films of pyrochlore iridates
- P97 **Suvankar Chakraverty** (RIKEN CEMS)
Topological Hall effect in perovskite oxide thin films and heterostructures
- P98 **Kentaro Ueda** (University of Tokyo)
Anomalous domain-wall conductance in pyrochlore-type $\text{Nd}_2\text{Ir}_2\text{O}_7$ on the verge of metal-insulator transition