

AC2MP2022 Program IMR Lecture Hall Nov.20-23, 2022*** Online**

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| Nov.21 | 10:00 | Opening | | | |
| | A | Chair | K. W. Choi | | Advances in Magnetic and Dielectric Systems |
| | 10:20 | A1I | Je-Geun Park | Seoul National University | Possible Quantum Phases in Co Compounds |
| * | 10:50 | A2I | Myung Joon Han | KAIST | Site-selective Hund physics in Fe ₃ GeTe ₂ |
| | 11:20 | A3C | Yoshinori Onose | IMR, Tohoku Univ. | Helimagnetic Spintronics |
| | 11:40 | A4C | Budhy Kurniawan | Universitas Indonesia | Effect of Cu doping in electric and magnetic properties of La _{0.7} (Ba _{0.97} Ca _{0.03}) _{0.3} Mn _{1-x} Cu _x O ₃ |
| | 12:00 | A5C | Utami Widyaiswari | Hokkaido University | Probing the ordering of Ru and Nd spins on Nd ₂ Ru ₂ O ₇ by Using Pulsed and Continuous Muon Beam |
| | 12:20 | A6CS | Wei-Lin Tu | Korea University | Cubic ferromagnet and its emergent phenomenon in the vicinity of phase boundary |
| * | 12:30 | A7CS | Hiroyuki Mitamura | ISSP, UTokyo | Is traditional "spin chirality" in two-dimensional-frustrated-spin systems truly chirality? |
| | 12:40 | A8CS | Dicky Rezky Munazat | Universitas Indonesia | Effect of Synthesis Method on Magnetic Properties of La _{0.7} Ba _{0.1} Ca _{0.1} Sr _{0.1} MnO ₃ |
| | 12:50 | Break | | | |
| | B | Chair | T. Sakai | | Optical Response and Exotic Magnetic States |
| | 14:00 | B1I | Masahiro Sato | Chiba University | Nonlinear Optical Effects in Ordered Magnets and Kitaev Spin Liquids |
| * | 14:30 | B2I | Heejae Kim | POSTECH | Ultrafast dynamics and control in condensed matter systems |
| | 15:00 | B3C | Yasuhiro H. Matsuda | ISSP, University of Tokyo | The Insulator-metal transition of VO ₂ in ultrahigh magnetic fields of up to 500 T |
| | 15:20 | B4C | Yongmin Kim | ISSP, University of Tokyo | Optical transitions of MAPbCl _x Br _{3-x} and MAPbI ₃ in magnetic fields |

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| | 15:40 | B5CS | Hao-Yu Chen | National Taiwan University | Photo-excited many-body effect in Monolayer Tungsten Disulfides |
| | 15:50 | Break | | | |
| | C | Chair | Y. M. Kim | | Novel Functionality in Matters |
| | 16:10 | C1I | Ranjini Bandyopadhyay | RRI Bangalore | Dichotomous behaviors of stress and dielectric relaxations in dense suspensions of swollen thermoreversible hydrogel microparticles |
| | 16:40 | C2I | Rie Umetsu | IMR, Tohoku Univ. | Magnetic properties and electronic structures of half-metal-type Heusler alloys |
| | 17:10 | C3I | Goutam Sheet | IISER, Mohali | Electric field control of inhomogeneity in a 2D superconductor |
| * | 17:40 | C4C | Masato Matsuura | CROSS | Inelastic neutron scattering study on lattice dynamics at the 6K anomaly in the the quantum spin liquid candidate k -(BEDT-TTF) ₂ Cu ₂ CN ₃ |
| | 18:00 | C5C | Hsiang-Lin Liu | National Taiwan Normal University | Deep-UV vibrational and electronic excitations of monolayer graphene" |
| | 18:20 | DCMP General Meeting | | | |
| | 19:10 | END | | | |
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| Nov.22 | | | | | |
| | D | Chair | H-H. Wen | | Superconductivity, CDW and Nanoprobes |
| | 10:00 | D1I | Ya-Ping Chiu | National Taiwan University | Atomically-resolved interlayer electronic structure along the c direction in YBa ₂ Cu ₃ O _{6.81} probed by cross-sectional scanning tunneling microscopy |
| | 10:30 | D2I | Hideaki Iwasawa | National Institutes for Quantum Science and Technology | Interrelation between electronic and bosonic couplings in high-Tc cuprate |
| * | 11:00 | D3I | Kui Jin | Institute of Physics, CAS | Common Scaling of the Strange Metal Scattering in High-Tc Superconductors |
| * | 11:30 | D4I | Yan Zhang | Peking University | Surface manipulation in transition metal chalcogenides studied by APRES and alkali-metal deposition |

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| * | 12:00 | D5I | Jianjun Ying | USTC | Pressure effect on vanadium kagome superconductors |
| * | 12:30 | D6C | Huan Yang | Nanjing University | Twofold symmetry of c-axis resistivity with in-plane rotating magnetic field in kagome superconductor CsV ₃ Sb ₅ |
| * | 12:50 | D7CS | Zhiwei Wang | Beijing Institute of Technology | Superconductivity and Charge Density Wave in CsV ₃ Sb ₅ with Kagome Lattice |
| * | 13:00 | D8CS | Yaomin Dai | Nanjing University | Electronic correlations and evolution of the charge-density wave in the kagome metals AV ₃ Sb ₅ |
| | 13:10 | Break | | | |
| | E | Chair | F-C. Chuang | | Physics of Thin Films and Layered Materials |
| * | 14:20 | E1I | Lexian Yang | Tsinghua University | Evolution of the electronic structure of ultrathin MnBi ₂ Te ₄ films |
| | 14:50 | E2I | Shang-Fan Lee | Academia Sinica | Magnons in bilayer MnBi ₂ Te ₄ |
| * | 15:20 | E3I | Eun-gook Moon | KAIST | Identification of Kitaev Quantum Spin Liquids via Topological Phase Transitions |
| | 16:10 | E4C | Hung-Chang Hsu | National Taiwan University | Atomically resolved enhanced electron-phonon interaction by electron doping in Monolayer MoS ₂ /Bi(111) |
| * | 16:30 | E5C | Takuto Fujii | Max-Planck-Institute for Chemical Physics of Solids | Observation of Zero-mode Landau Level in Semimetallic Black Phosphorus by High-field NMR Measurements |
| | 16:50 | E6C | Iduru Shigeta | Kagoshima University | Superconductivity in epitaxially layered NbN/Co ₂ Fe _{1-x} Mn _x Si films |
| | 17:10 | E7CS | Yi Feng Chen | National Taiwan University | Imaging the strain distribution induced by the lattice reconstruction in twisted bilayer transition metal dichalcogenides |
| | 17:20 | E8CS | Kaixuan Zhang | Seoul National University | Gigantic intrinsic spin-orbit torque and spintronic applications based on topological van-der-Waals ferromagnetic metal Fe ₃ GeTe ₂ |
| | Poster | Chair | H. Nojiri | | |
| | 17:30 | PosterPreview | | | |
| | 18:20 | Poster | | | |

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| | 19:30 | END | | | |
| Nov.23 | | | | | |
| | G | Chair | M. Tokunaga | | Topological Matters and Surface |
| * | 10:00 | G1I | Hongjun Gao | Institute of Physics, CAS | Ordered and tunable Majorana-zero-mode lattice in naturally strained LiFeAs |
| | 10:30 | G2I | Chi Chen | Academia Sinica | Revealing the Local Band Structures of Lateral WS ₂ /MoS ₂ Heterojunction and Graded W _x Mo _{1-x} S ₂ Alloy by Near-Field Optical Imaging |
| | 11:00 | G3I | Pin-Jui Hsu | National Tsing Hua University | Self-Assembly of Magnetic Atoms on Stanene |
| * | 11:30 | G4I | V. Kanchana | IIT, Hyderabad | Topological effects in magnetic materials |
| * | 12:00 | G5I | Jeehoon Kim | POSTECH | Anomalous transport properties in a Weyl metal |
| | 12:30 | Break | | | |
| | H | Chair | R. Umetsu | | Nano Science and Novel Transport |
| * | 13:40 | H1I | Feng Miao | Nanjing University | Atomic Lego for future computing |
| | 14:10 | H2I | Masashi Tokunaga | ISSP, Univ. of Tokyo | Field-induced insulating state in the ultraquantum limit state of BiSb |
| | 14:40 | H3C | Hiro Ishizuka | Tokyo Institute of Technology | Skew scattering by magnetic monopoles and anomalous Hall effect in spin-orbit coupled systems |
| | 15:00 | H4C | Akiyoshi Yamada | ISSP, University of Tokyo | Semiclassical origin of negative magnetoresistance and planar Hall effect in Weyl electron system |
| | 15:20 | Break | | | |
| | I | Chair | H. Ohta | | Quantum Matters and Extrem Conditions |
| * | 15:40 | I1I | Chaw-Keong Yong | National Taiwan University | Light-matter interaction in atomically quantum materials |

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| * | 16:10 | I2I | Ting-Hua Lu | National Taiwan Normal University | Structured light interacts with 2D materials |
| | 16:40 | I3I | Kwang-Yong Choi | Sungkyunkwan University | Magnetization plateaus in the $s=1/2$ Kagome antiferromagnet |
| | 17:10 | I4C | Hajime Ishikawa | ISSP, University of Tokyo | Observation of Entire Magnetization Process of Star Lattice Quantum Spin Liquid Candidate in Pulsed High Magnetic Field |
| * | 17:30 | I5C | Akihiko Ikeda | UEC Tokyo | Spin-triplet exciton condensations in LaCoO ₃ at 600 Tesla |
| | 17:50 | I6CS | Yuto Ishii | University of Tokyo | Magnetic properties of Bi _{10.5} Ca _{0.5} MnO ₃ under ultrahigh magnetic field |
| | 18:00 | Closing | | | |
| | 18:10 | End | | | |
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| | | | Poster Presentation | | |
| | | P1 | Masaki Kondo | Osaka University | Large anomalous Hall effects due to field-tunable Weyl points in antiferromagnetic degenerate semiconductor EuMg ₂ Bi ₂ |
| | | P2 | Sho Maegawa | Osaka Metropolitan University | Creation of a combined cryogenic and high magnetic field environment by inserting a pulse magnet in an adiabatic demagnetization cryostat |
| | * | P3 | Katsuki Nihongi | Osaka Univ. | Pressure effects on the high-field magnetism of CsFeCl ₃ |
| | | P4 | Muhammad Abdan Syakuur | RIKEN | Sample Synthesis of a Single Phase Nd ₂ Ru ₂ O ₇ |
| | | P5 | Naoki Yuasa | Osaka University | Observation of topological Hall effect dependent on antiferromagnetic order in EuAu ₂ Ge ₂ |
| | | P6 | Anita Eka Putri | RIKEN | Particle-Size Effect of Magnetic Properties on La ₂ CuO ₄ Nanoparticles |
| | | P7 | Supparat Charoenphon | RIKEN | Electronic Correlational Functional Dependence of Electronic States of La ₂ CuO ₄ Viewed by the Density Functional Theory Calculations |

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| | | P8 | Shoichi Yoshida | Osaka Metropolitan University | ³ He-free cryostat for pulsed magnet based on adiabatic demagnetization and ⁴ He heat conduction down to 0.5 K |
| | * | P9 | SHIYUE PENG | ISSP | Superconducting-normal transition of YBCO thin films in ultrahigh magnetic fields |
| | * | P10 | Xu-Guang Zhou | ISSP | Evidence of Quantum Spin Liquid of α -RuCl ₃ under the Out-of-plane Magnetic Field |
| | | P11 | Isao Watanabe | RIKEN | Muon Positions and on-site Coulomb in La ₂ CuO ₄ Investigated by Muon Spin Relaxation and Density Functional Theory Calculations |
| | | P12 | Tomoki Kanda | ISSP, Univ. of Tokyo | Novel Ordered state of CeCoSi observed under High Magnetic Fields |
| | | P13 | Hitoshi Ohta | Molecular Photoscience Research Center, Kobe University | Development of Multi-Extreme THz ESR in Kobe |
| | * | P14 | Shams Sohel Islam | Sungkyunkwan University | Unconventional superparamagnetic behavior in the modified cubic spinel compound LiNi _{0.5} Mn _{1.5} O ₄ |