

New Perspective in Spin Conversion Science (NPSCS2020)

3rd Feb. (Mon), 2020

09:30-10:00	Registration
10:00-10:10	Yoshichika Otani, Hatsumi Mori (ISSP director) Opening
10:10-10:35	01 Yoshichika Otani (University of Tokyo) Nano-spin conversion phenomena in spintronics
10:35-11:10	02 Kang Wang (University of California Los Angeles) Spin-orbit torque switching in Ferrimagnetics
11:10-11:45	03 Hide Kurebayashi (University College London) Electric/chemical control of magnetism in van der Waals ferromagnets
11:45-12:10	04 Takashi Kikkawa (Tohoku University) Spin Seebeck/Peltier effects induced by magnon-phonon hybridization
12:10-13:10	Lunch (60 min)
13:10-15:10	Poster session (120 min)
15:10-15:45	05 Yaroslav Tserkovnyak (University of California Los Angeles) Putting magnetic vortices to work in spintronics
15:45-16:10	06 Kazuya Ando (Keio University) Spin-Orbit Torques in Metal-Based Heterostructures
16:10-16:45	07 Burkard Hillebrands (University of Kaiserslautern) Magnon Josephson oscillations
16:45-17:05	Coffee break (20min)
17:05-17:40	08 Christopher Marrows (University of Leeds) Skyrmions in chiral magnetic multilayers
17:40-18:05	09 Shuichi Murakami (Tokyo Institute of Technology) Generations and conversions of phonon angular momenta
18:30-20:30	Banquet

4th Feb. (Tue), 2020

08:30-09:00	Registration
09:00-09:35	10 Xiaofeng Jin (Fudan University) Spin-charge conversion in Bi/Ag bilayer
09:35-10:00	11 Masashi Shiraishi (Kyoto University) Gate-tunable inverse spin Hall effect in ultrathin Pt
10:00-10:25	12 Gerrit Bauer (Tohoku University) Spintronics with magnetic insulators
10:25-10:45	Coffee break (20 min)
10:45-11:20	13 Jairo Sinova (University of Mainz) Topological spintronics in antiferromagnets and the crystal Hall effect
11:20-11:45	14 Akira Oiwa (Osaka University) Conversion of angular momentum, quantum state and entanglement from photons to electron spin using gate-defined quantum dots
11:45-12:10	15 Shingo Katsumoto (University of Tokyo) Creation of Two-Dimensional Topological Phases with Perturbations
12:10-13:25	Lunch (75 min)
13:25-13:50	16 Junyeon Kim (RIKEN) Orbital torque in ferromagnetic metal/Cu/Al ₂ O ₃
13:50-14:15	17 Teruo Ono (Kyoto University) Ferrimagnetic spintronics
14:15-14:50	18 Xu Yang (University of Groningen) Spin-charge conversion by chirality
14:50-15:10	Coffee break (20 min)
15:10-16:45	19 Theo Rasing (Radboud University) NEW PERSPECTIVES IN ALL-OPTICAL CONTROL OF SPINS: from fundamentals to brain-inspired computing concepts
14:45-15:10	20 Takeshi Seki (Tohoku University) Spin-Charge Conversion in Ferromagnetic Materials
16:10-16:45	21 Jason Robinson (University of Cambridge) Pure spin supercurrents
16:45-16:55	Closing