

The ISSP workshop / The 2nd 6MaF workshop.

Science and instrumentation for extreme magnetic fields. (SlxMaF or 6MaF is the abbreviation of Science and Instrumentation for extreme Magnetic Fields.)

Main venue The 1st Meeting Room (6 Floor)

Presentation time : 30 min (20 min + 10 min for Q&A)

April 2nd (Wed.)

Session 1

9:30	Yasuhiro H. Matsuda	ISSP, UTokyo	Opening
9:35	Oliver Portugall	EMFL-LNCMI	Far-infrared spectroscopy using the stripline technique
10:05	Zhuo Yang	ISSP, UTokyo	Evidence for Harper broadening in the yellow series exciton of Cu ₂ O at ultrahigh magnetic field
10:35	Bei Sun	ISSP, UTokyo	Giant Magneto-Optical Response in LiNiPO ₄ under Pulsed High Magnetic Fields
11:05	Break (25 min)		
11:30	Marc Nardone	EMFL-LNCMI	Cryogenic developments for Megagauss experiments
12:00	Xu-Guang Zhou	Southeast Univ,	The construction of pulsed magnetic field in Southeast University
12:30			

Lunch

14:00

Poster presentation & Free Discussion (Lounge : 6 Floor)

17:00

April 3rd (Thu.)

Session 2

9:30	Oleksiy Drachenko	EMFL-LNCMI	Quantum cascade lasers for magnetospectroscopy
10:00	Robin Thirion	EMFL-LNCMI	Spectroscopy TeraHertz under Megagauss field
10:30	Atsuhiko Miyata	ISSP, UTokyo	Magneto-optics of antiferromagnets
11:00	Break (30 min)		
11:30	Hiroaki Fujikawa	ISSP, UTokyo	Effect of ferroelectricity on carrier properties of halide perovskites
12:00	Kaiyang Huang	ISSP, UTokyo	Unusual optical absorption in NiPS ₃ due to Zhang-Rice transitions in high magnetic fields
12:30			

Lunch

Session 3

14:00	Shiyue Peng	ISSP, UTokyo	The magnetoresistance investigation of YBCO under ultra-high magnetic fields
14:30	Sven Badoux	EFLM-LNCMI	Recent development of transport measurements in the Megagauss installation (beyond 101 T)
15:00	Yuto Ishii	ISSP, UTokyo	Recent technical developments for megagauss experiments from practical aspects
15:30		Break (30 min)	
16:00	Yoshimitsu Kohama	ISSP, UTokyo	Aiming to understand thermodynamic property in strong magnetic fields
16:30	Akihiko Ikeda	UEC, Tokyo	XFEL experiments above 100 T
17:00			

April 4th (Fri.)

Session 4

9:30	Yasuhiro H. Matsuda	ISSP, UTokyo	Insulator-metal transition in Ti-based compounds
10:00	Yulin Guo	ISSP, UTokyo	The magneto-optical spectra and transient absorption of a microbial rhodopsin in ultrahigh magnetic field
10:30	Polin Chiu	ISSP, UTokyo	Dielectric measurement technique for ultrahigh magnetic field; development and application to BaTiO ₃
11:00		Break (30 min)	
11:30	Hiroaki Hayashi	ISSP, UTokyo	Exotic quantum states in kagome materials
12:00	Masaki Gen	ISSP, UTokyo	Search for magnetic-field-induced antiferroelectric-to-ferroelectric transition
12:30			

Lunch

14:00			
	Lab tour & Experiment (C-building)		

17:00

Break

18:00			
	<i>Banquet (C- building)</i>		
21:00			

Poster presentations April 2nd (14:00 - 17:00)

Poster No.

P1	Junmeng Zhao	ISSP, UTokyo	Quest for the magnetic-field-induced phase transition of MgTi ₂ O ₄
P2	Jiajun Huang	ISSP, UTokyo	Metal-insulator transition of Ti ₂ O ₃ thin-films under ultrahigh magnetic fields
P3	Masahiko Hara	ISSP, UTokyo	Effect of high magnetic field on KF-doped BaTiO ₃
P4	Xiaochen Wang	ISSP, UTokyo	Investigation of the insulator-metal transition mechanism of V _{1-x} W _x O ₂ in ultrahigh magnetic field
P5	Yasuhiro H. Matsuda	ISSP, UTokyo	Magnetic field waveform generated by the single-turn coil and the electromagnetic flux compression
P6	Atsuhiko Miyata	ISSP, UTokyo	Magneto-optics of antiferromagnets
P7	Zhuo Yang	ISSP, UTokyo	Magneto-optical measurements at ultra-high magnetic field in IMGSL, ISSP
P8	Akihiko Ikeda	UEC Tokyo	XFEL experiments above 100 T
P9	Hideaki Kobayashi	UEC Tokyo	Analysis of magnetic field generation dynamics of single turn coil method and Proposal of Magnetic Field Augmentation Method with full 3D Finite Element Multi-Physics Simulator
P10	Susumu Okubo	Kobe University	Progress of High-Field THz ESR under Multiple Extreme Conditions in Kobe University
P11	Bei Sun	ISSP, UTokyo	Giant Magneto-Optical Response in LiNiPO ₄ under Pulsed High Magnetic Fields
P12	Yuto Ishii	ISSP, UTokyo	Vanadium oxides under ultrahigh magnetic fields
P13	Hiroaki Fujikawa	ISSP, UTokyo (M2)	Introductory of magneto-optical spectroscopy of halide perovskites
P14	Hiroaki Hayashi	ISSP, UTokyo (Project Res. Assoc.)	Magnetization Plateaus in YCu ₃ (OD) _{6.5} Br _{2.5} under Ultrahigh Magnetic Fields
P15	Oleksiy Drachenko	LNCMI	Quantum cascade lasers for magnetospectroscopy
P16	Oliver Portugall	LNCMI	Far-infrared spectroscopy using the stripline technique
P17	Sven Badoux	LNCMI, Toulouse	Development of microwave transport measurements for semi-destructive magnetic fields: First observation of oscillations above 120 T
P18	Robin Thirion	LNCMI, Toulouse	Optical calibration of a CO ₂ laser with pulse smoothing option
P19	Shiyue Peng	ISSP, UTokyo (D3)	The magnetoresistance investigation of YBCO under ultra-high magnetic fields
P20	Chiu Polin	ISSP, UTokyo	Quest for structural phase transitions in ferroelectric materials
P22	Marc Nardone	LNCMI, Toulouse	Cryogenics at the LNCMI-T