

MORIS 2019 Time Schedule

June 23 (Sun.)	June 24 (Mon.)	June 25 (Tue.)	June 26 (Wed.)
	Registration Desk 8:30-17:00		
9:00	Opening Remarks 8:45 - 9:00		
9:30	Caroline A. Ross	Chiara Ciccarelli	Jaroslav Hamrle
10:00	Yosuke Nakata	Ricardo C. Sousa	Roman Pisarev
10:30	Lei Bi	Atsufumi Hirohata	Ademir Aleman
11:00	Liudmila Alyabyeva	Martin Zahradnik	Koki Watanabe
11:30	Stefan Visnovsky	Hikaru Nomura	Victor Belyaev
12:00	Coffee Break 10:45 - 11:15	Coffee Break 10:45 - 11:15	Coffee Break 10:30 - 11:00
12:30	Kyung-jing Lee	Tomas Jungwirth	Katrin Schultheiß
13:00	Jakub Zázvorka	Petr Němec	Masashi Iwaba
13:30	P. N. Skirdkov	Marcin Bialek	Igor Turčan
14:00	Nozomi Nishizawa	Jakub Zelezny	Maciej Krawczyk
14:30	Lunch Time 12:30 - 13:45	Lunch Time 12:30 - 13:45	Lunch Time 12:15 - 13:30
15:00	Stefano Bonetti	Poster session Tu-P 13:45 - 15:30 (Refreshment)	Karel Carva
15:30	Tetsuya Nakamura	Christoph Vogler	Qi Zhang
16:00	Timo Kuschel	Jakob Walowski	Joerg Wunderlich
16:30	Kohei Yamamoto	Warunee Tipcharoen	Leandro Salemi
17:00	Coffee Break 15:00 - 15:30	Nuttapon Chaiduangstri	Guanqiao Li
17:30	Andrzej Stupakiewicz	Coffee Break 16:45 - 17:15	Closing Remarks 14:45 - 15:00 Prof. Kato
18:00	Ilie Radu	Nobuaki Kikuchi	
18:30	Vladimir Belotelov	Hiroyuki Awano	
19:00	Anna Gatilova	Wangzhen Zhao	
19:30	Tomas Janda	Mikhail Logunov	
20:00	Kihiro Yamada	Special Talk - Norio Ota 18:30 - 18:50	
20:30	Poster session Mo-P 17:00 - 18:45 (Refreshment)	Award Ceremony & Photograph 18:50 - 19:05	
21:00		Move to Banquet	
21:30		19:15 - 21:45	

Registration Desk 13:00-19:00

Registration Desk 8:30-17:00

Registration Desk 8:30-15:00

Registration Desk 9:00-12:00

MORIS2019 TECHNICAL PROGRAM

June 23 (Sun.)

Tutorial Seminars

14:00-15:30	Tutorial 1	All-Optical Magnetization Switching in Spin-Valve Structure Mediated by Spin-Polarized Hot Electron Transport	Stephane Mangin
15:30-15:45	Coffee Break		
15:45-17:15	Tutorial 2	TBD	Geoffrey S.D. Beach
17:15-17:45	We-03-1 (moved)	Antiferromagnetic Spintronics with (Anti)Skyrmions and Bimerons	Oleg Tretyakov
18:00-20:00	Get Together		

Opening Remarks

8:45-9:00 Professor Martin Veis
Charles University

Mo-01 Magneto-optical Phenomena and Devices I & Optics and Photonics

9:00-9:30	Mo-01-1	Ferrimagnetic Garnet Thin Films for Magnetooptics and Spintronics	Caroline A. Ross
9:30-10:00	Mo-01-2	Realization of Topological Tamm States by Thouless Pumping	Yosuke Nakata
10:00-10:15	Mo-01-3	Silicon Integrated Magnetoplasmonic Metasurfaces Using Low Loss Ce:YIG Thin Films	Lei Bi
10:15-10:30	Mo-01-4	Terahertz Soft Mode Pecularity in Barium-Lead Hexaferrite	Liudmila Alyabyeva
10:30-10:45	Mo-01-5	Nonreciprocal Propagation in Optical Fibers	Stefan Visnovsky

10:45-11:15 Coffee Break

Mo-02 New Concepts and New Materials / Devices I

11:15-11:45	Mo-02-1	Ferrimagnetic Spintronics	Kyung-jing Lee
11:45-12:00	Mo-02-2	Skyrmion Interactions in an Ordered Lattice State	Jakub Zázvorka
12:00-12:15	Mo-02-3	Spin Pumping, Spin Seebeck Effect and Corresponding Inverse Spin Hall Effect in Permalloy Dots-Topological Insulator Bilayers	P. N. Skirdkov
12:15-12:30	Mo-02-4	Electrical Circular Polarization Switching at Room Temperature with Spin-Polarized Light Emitting Diodes	Nozomi Nishizawa

12:30-13:45 Lunch

Mo-03 Magnetic X-ray Application

13:45-14:15	Mo-03-1	Terahertz Spin Dynamics	Stefano Bonetti
14:15-14:30	Mo-03-2	Study of Coercivity Mechanism in Isotropic and Anisotropic Nd-Fe-B Sintered Permanent Magnets by Applying Magnetic Domain Observation Using Synchrotron X-Rays	Tetsuya Nakamura
14:30-14:45	Mo-03-3	Manipulation of Platinum Magnetism by Variation of Adjacent Magnetic 3D Metal Alloy Thin Films	Timo Kuschel
14:45-15:00	Mo-03-4	Element Specific Observation of Photo-Induced Ultrafast Magnetization Dynamics with Soft X-Ray Free Electron Laser	Kohei Yamamoto

15:00-15:30 Coffee Break

Mo-04 Ultrafast Dynamics / Reversal

15:30-15:45	Mo-04-1	Tunable All-Optical Magnetic Recording in Iron Garnet	Andrzej Stupakiewicz
15:45-16:00	Mo-04-2	Ultrafast Magnetic Recording with Terahertz Light	Ilie Radu
16:00-16:15	Mo-04-3	Nanostructured Magnetic Dielectrics for Ultrafast Magnetization Control by fs-Laser Pulses	Vladimir Belotelov
16:15-16:30	Mo-04-4	Far and Mid-Infrared Excitation of Large Amplitude Spin Precession in Ferromagnetic Semiconductor InMnAs	Anna Gatilova
16:30-16:45	Mo-04-5	Spin-Polarized Ultrafast Current Pulses in a Vertical Ferromagnet-Photodiode Heterostructure	Tomas Janda
16:45-17:00	Mo-04-6	Efficient All-Optical Helicity-Dependent Magnetization Switching in a Ferromagnet with Dual Laser Pulses	Kihiro Yamada

Mo-P Poster Session

17:00-18:45	<p>Mo-P-01 ~ Mo-P-33</p>	<p>Magneto-optical Phenomena and Devices Ultrafast Dynamics / Reversal Optics and Photonics Magnetic X-ray Applications</p>
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Tu-01 New Concepts and New Materials / Devices II

9:00-9:30	Tu-01-1	Spin Pumping into Superconductors Provides Evidence for Superconducting Pure Spin Currents	Chiara Ciccarelli
9:30-10:00	Tu-01-2	Scaling the Spintronics Memory Function with Perpendicular Anisotropy	Ricardo C. Sousa
10:00-10:15	Tu-01-3	Thermally-Assisted Magnetisation Reversal in A Giant Magnetoresistive Junction	Atsufumi Hirohata
10:15-10:30	Tu-01-4	Magnetization Dynamics in SrRuO3 Thin Films	Martin Zahradnik
10:30-10:45	Tu-01-5	Dipole Coupled Nanomagnet Reservoir with Multibit Input Data	Hikaru Nomura

10:45-11:15 Coffee Break

Tu-02 Antiferromagnetic Materials and Antiferromagnetic Spintronics I

11:15-11:45	Tu-02-1	Antiferromagnetic Spintronics: from Terahertz to Neuromorphics	Tomas Jungwirth
11:45-12:00	Tu-02-2	Pump-Probe Magneto-Optical Studies of Compensated Antiferromagnet CuMnAs	Petr Němec
12:00-12:15	Tu-02-3	Magnon-Photon Coupling in Ferrites	Marcin Bialek
12:15-12:30	Tu-02-4	Spin Currents in Collinear and Non-Collinear Antiferromagnets	Jakub Zelezny

12:30-13:45 Lunch

Tu-P Poster Session

13:45-15:30	<p>Energy Assisted Magnetic Recording</p> <p>Tu-P-01 ~ Tu-P-37</p> <p>New Recording Media / Nano Magnetic Materials</p> <p>Magnonics</p> <p>New Concepts and New Materials / Devices</p> <p>Antiferromagnetic Materials and Antiferromagnetic Spintronics</p>
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Tu-03 Energy Assisted Magnetic Recording

15:30-16:00	Tu-03-1	Advanced Concepts of High-Density Heat-Assisted Magnetic Recording	Christoph Vogler
16:00-16:15	Tu-03-2	All-Optical Helicity-Dependent Magnetization Switching of Iron-Platinum Magnetic Recording Media	Jakob Walowski
16:15-16:30	Tu-03-3	Transition Jitter and SNR Analysis in HAMR Process Under Impact of Media Hk and Tc Variations	Warunee Tipcharoen
16:30-16:45	Tu-03-4	Background Interference Impact of Heat Sink Layer in Heat Assisted Magnetic Recording	Nuttapon Chaiduangri

16:45-17:15 Coffee Break

Tu-04 New Recording Media / Nano Magnetic Materials II

17:15-17:45	Tu-04-1	Microwave Assisted Switching on CoPtCr-Based Granular Media	Nobuaki Kikuchi
17:45-18:00	Tu-04-2	Does Spin Orbit Torque also Work on Current Driven Domain Wall Motion of Thick GdFeCo (500 nm) Single Layer Magnetic Wire without Heavy Metal Pt Layer?	Hiroyuki Awano
18:00-18:15	Tu-04-3	Spin Transfer Torque Switching of Hybrid Memory Layers with Low Curie Temperature CoPd/Pd Multilayers	Wangzhen Zhao
18:15-18:30	Tu-04-4	Precision Deep Layer-By-Layer Etching of Bi-YIG Films	Mikhail Logunov

Tu-SP Special Talk

18:30-18:50	Tu-SP-1	Magnetism and Optics of Graphene Materials in the Astronomical Interstellar Space - Celebrating 28 Years Anniversary of Moris Conference -	Norio Ota
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18:50-19:05 Award Ceremony & Photograph

19:15-21:45 [Banquet - Pilsen restaurant in Municipal House](#)

We-01 Magneto-optical Phenomena and Devices II

9:00-9:30	We-01-1	Linear and Quadratic Magneto-optic Spectroscopy on Bcc Fe	Jaroslav Hamrle
9:30-9:45	We-01-2	Unconventional Non-Reciprocal Magneto-Optical Effects in a Magnetoelectric Antiferromagnet CuB ₂ O ₄	Roman Pisarev
9:45-10:00	We-01-3	Periodically Driven Spinwaves by Ultrafast Laser Pulses with a High Repetition Rate	Ademir Aleman
10:00-10:15	We-01-4	A Study on Spectral-Domain Formulation of Electromagnetic Scattering by Defected Grating Made of Anisotropic Materials	Koki Watanabe
10:15-10:30	We-01-5	High Sensitive DC Magnetic Field Sensor Based on Magnetoplasmonic Crystal	Victor Belyaev

10:30-11:00 Coffee Break

We-02 Magnonics

11:00-11:30	We-02-1	How to Generate Whispering Gallery Magnons	Katrin Schultheiß
11:30-11:45	We-02-2	Shape-Forming of Spin Wave Packets by Dynamic Magnonic Crystal	Masashi Iwaba
11:45-12:00	We-02-3	Uniaxial Magnetic Anisotropy Modulation in Thin Permalloy Films	Igor Turčan
12:00-12:15	We-02-4	Edge Localised Spin Waves in Antidot Lattices Based on Multilayers with Perpendicular Magnetic Anisotropy	Maciej Krawczyk

12:15-13:30 Lunch

We-03 Antiferromagnetic Materials and Antiferromagnetic Spintronics II

13:30-13:45	We-03-5	Tetragonal vs. Orthorhombic CuMnAs: Phase Stability and the Role of Defects	Karel Carva
13:45-14:00	We-03-6	Efficient Terahertz Radiation from a Single Ferromagnetic Layer	Qi Zhang
14:00-14:15	We-03-2	Scanning Magneto-Thermoelectric Imaging of Spin-Orbit Torque Switching in Antiferromagnetic Films	Joerg Wunderlich
14:15-14:30	We-03-3	First-Principles Theory of Electrically Induced Magnetization in Noncentrosymmetric Antiferromagnets	Leandro Salemi
14:30-14:45	We-03-4	Double Pump THz Emission Spectroscopy of Multiscale Kinetics of the Magnetic Phase Transition in FeRh	Guanqiao Li

Closing Remarks

14:45-15:00 Professor Takeshi Kato
Nagoya University

MORIS2019 TECHNICAL PROGRAM

(Poster Session)

June 24 (Mon.)

Mo-P Poster Session

17:00-18:45

Magneto-optical Phenomena and Devices

Mo-P-01	Photo-Induced and Magneto-Optical Phenomena in Europium Chalcogenides EuX (X = O, S, Se, Te)	Victor Pavlov
Mo-P-02	Magneto-Optical Spectroscopy by Polarization Modulation Method Using a Multichannel Spectrometer	Shihao Wang
Mo-P-03	Random Number Generation Using Magnetic Domain Images of Magneto-Optical Materials	Takuya Kawashima
Mo-P-04	Magneto-Optical Effect in Magnetic Layer / Heavy Metal Layer Hetero-Structure	Matsumoto Kei
Mo-P-05	Low-Temperature Fabrication of Bi-Substituted Neodymium Iron Garnet Films by an Excimer Laser Assisted Metal Organic Deposition Process	Masami Nishikawa
Mo-P-06	Influence of Epitaxial Strain on Electronic Transitions In La ₂ /3Sr ₁ /3MnO ₃ Ultrathin Films	Tomáš Maleček
Mo-P-07	Magneto-Optical Spectroscopy of Ferromagnetic Fe-Mn-Ga Magnetic Shape Memory Heusler Alloys	Daniel Kral
Mo-P-08	Magneto-Optic Light Deflector Controlled by the Stator of Stepping Motors	Kai Shimura
Mo-P-09	Origin of Optical and Magneto-Optical Properties of Tb ₃ Fe ₅ O ₁₂ in Nir/Vis/UV Region	Lukas Beran
Mo-P-10	Large Magneto-Optical Response of Nd _{0.5} Bi _{2.5} IGG Ultra Thin Film	Jan Šetina
Mo-P-11	Magnetic Polarons Revealing by Photo-Induced Kerr Effect in Bulk EuS	Vladimir Kats
Mo-P-12	Strong Quadratic Magneto-Optical Response of Ultrathin YIG Film at Low Temperatures	Eva Schmoranzero
Mo-P-13	Magneto-Optical Nonreciprocal Metasurfaces Using All Dielectric Resonances	Lei Bi
Mo-P-14	Sensitivity Tuning of Magnetic Field Sensor Based on Magnetoplasmonic Crystal	Dmitry Murzin
Mo-P-15	Quadratic Magneto-optic Kerr Effect of Cubic (011) and Cubic (111) Thin Films	Robin Silber
Mo-P-16	Theoretical Study on The Enhancement of Magneto-Optic Kerr Effect Using Silica Thin Film	Takehiro Tachizaki
Mo-P-17	Magnetic Fields to Focalize and Accelerate Ions Produced by ns Laser-Generated Plasmas	Giuseppe Costa
Mo-P-18	Optical and Magneto-Optical Spectroscopy of Co Doped Ni-Mn-Ga Films	Lukáš Nowak
Mo-P-33	Magnetocrystalline Anisotropy of Mn Induced Bi ₂ X ₃ (X=Se, Te) Heterostructure: DFT Study (Post-Deadline)	Saleem Ayaz Khan

Ultrafast Dynamics / Reversal

Mo-P-19	Laser-Induced Spin Currents and Spin Transfer Torque in Noncollinear Magnetic Structures	Pavel Baláz
Mo-P-20	Ultrafast Dynamics of the Induced and Intrinsic Magnetic Moments in Ferromagnetic Alloys	Igor Vaskivskiy
Mo-P-21	All-Optical Magnetization Switching In GdFeCo on Electronic Heat Conversion Layers	Hiroki Yoshikawa
Mo-P-22	Ultrafast Excitation of Coherent Magnon and Phonon in Multiferroic Bismuth Ferrite	Keita Matsumoto
Mo-P-23	Electrical Detection of Single Shot All-Optical Magnetization Switching in Ferrimagnetic GdFeCo Alloy	Yuichi Kasatani
Mo-P-24	Ultrafast Laser-Induced Spin-Reorientation Transition in Magnetite Fe ₃ O ₄	Ivan O. Karpovsky
Mo-P-25	Light Switching of Magnetization in Europium Selenide	Pavel A. Usachev
Mo-P-26	Magnetic Moment Generation in Small Gold Nanoparticles via the Plasmonic Inverse Faraday Effect (Post-Deadline)	Jerome Hurst

Optics and Photonics

Mo-P-27	Optical Properties and Solar Energy Conversion of a MoS ₂ / TiO ₂ Heterojunctions	Lukasz Jarosinski
Mo-P-28	Surface Plasmon Polariton Device for Spin Wave Excitation	Katsuji Nakagawa
Mo-P-29	Design of Film Structure for a Fiber Type Magnetic Sensor Using Magneto-Plasmonic Effect	Atsushi Nakayama
Mo-P-30	Annealing Temperature Dependence on Magneto-Plasmonic Effect of Ag-Co Single Layer Films	Yoshito Ashizawa
Mo-P-31	Coupled Wave Method with Modified Boundary Conditions for Diffraction Grating Calculations	Roman Antos

Magnetic X-ray Applications

Mo-P-32	Spatially-, Temporally-, and Elementally-Resolved Imaging of Magnetization Dynamics with X-Ray Magnetic Circular Dichroism	Nobuaki Kikuchi
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Energy Assisted Magnetic Recording

Tu-P-01	Effects of Dot-Position of BPM, Thermal Distribution, and Gradient of Head-Field on Bit Error Rate for HAMR	Fumiko Akagi
Tu-P-02	Transient of the Growth of Magnetization Precession in Unstable Regime	Naoto Kitajima
Tu-P-03	Magnetic Write Field Characterization in Heat-Assisted Magnetic Recording Systems	Prasit Kampun

New Recording Media / Nano Magnetic Materials

Tu-P-04	Observation of Thermal Distribution in Magnetic Wire Under Current Injection	Takuya Sawa
Tu-P-05	Electric-Field-Assisted Spin Hall Magnetization Switching in MgO/Co/Pt Trilayers	Kazuya Kunishima
Tu-P-06	Surface Roughness and Morphology of Garnet Films Made by MOD Method	Koki Murata
Tu-P-07	Photovoltage Spectroscopy of Spin Excitation of Ferromagnetic Disk at Low Temperature in Two Dimensional Electron Gas Systems	Najla Almulhem

Magnonics

Tu-P-08	Generation of Spin-Waves and Spin-Currents by Electrically and Optically Excited Elastic-Waves	Nikolay Pertsev
Tu-P-09	Optical Excitation of Spin Waves with an Arbitrary Distribution	Mikhail Kozhaev
Tu-P-10	Flat Bands, Indirect Gaps, and Unconventional Spin-Wave Behavior Induced by a Periodic Dzyaloshinskii-Moriya Interaction	Rodolfo Gallardo
Tu-P-11	Time-Domain Detection of Multiple Spin-Wave Solitons Generation	Mikito Kawase
Tu-P-12	Magnon Raman Scattering in BiFeO ₃	Minori Kichise
Tu-P-13	Design of Metalens for Spin Waves	Maciej Krawczyk
Tu-P-14	Magnon Raman Scattering in Y ₃ Fe ₅ O ₁₂	Wei-Hung Hsu
Tu-P-15	Electromagnons and Origin of Giant Magnetoelectric Coupling in Multiferroics with Y- and Z-Type Hexaferrite Structure	Stanislav Kamba

New Concepts and New Materials / Devices

Tu-P-16	Magneto-Optical Study of Helical Domain Structures in Cylindrical Microwires	Alexander Chizhik
Tu-P-17	Spin Orbit Torques in Ferrimagnetic GdFeCo with Various Compositions	Takeshi Kato
Tu-P-18	Current-Induced Domain Wall Motion Driven by Spin Orbit Torque in Ferrimagnetic GdFeCo Wires	Pham Van Thach
Tu-P-19	Influence of Perpendicular RF Fields in Spin Torque FMR Measurement	Taisuke Horaguchi
Tu-P-20	Imparting Memory Functionality to Planer Wave-Guide Structures with Photo-Magnetic Materials	Hiro Munekata
Tu-P-21	Switching of Skyrmion Chirality by Local Heating	Yoshinobu Nakatani
Tu-P-22	Acceleration of Resonance State Calculation Using the LLG Equation	Chiharu Mitsumata
Tu-P-23	Ferromagnetic Resonance of a [GeTe / Sb ₂ Te ₃] / Py Super Lattice	Satoshi Sumi
Tu-P-24	Structure and Magnetic Properties of FeMnGa Alloy Thin Films	Toshiyuki Shima
Tu-P-25	(001) Oriented CoFe ₂ O ₄ Thin Films on Glass and Si Substrates Prepared by MOD Method	Keita Yasuda
Tu-P-26	An Application of Spin-LED: Unstaining and Non-Invasive Cancer Detection Using Circularly Polarized Light	Nozomi Nishizawa
Tu-P-27	Comparison of Properties Between Pr-Fe-B and Nd-Fe-B Thick-Film Magnets Applied to MEMS	Masaki Nakano
Tu-P-28	"Hot" Electrons Lead to Record Thermionic Emission in LaB ₆	Liudmila Alyabyeva
Tu-P-29	Infrared Spectrum of Graphene Compared with Fullerene as Astronomical Carbon Dust	Norio Ota

Antiferromagnetic Materials and Antiferromagnetic Spintronics

Tu-P-30	Tetragonal vs. Orthorhombic CuMnAs: Phase Stability and the Role of Defects	Karel Carva
Tu-P-31	Efficient Terahertz Radiation from a Single Ferromagnetic Layer	Qi Zhang
Tu-P-32	Magnetoelectric Excitations in Polar Antiferromagnetic Nickel Tellurates Substituted by Mn and Co	Christelle Kadlec
Tu-P-33	Magneto-Optical Spectra of a Frustrated Antiferromagnet: Theory and Experiment	Jan Zemen
Tu-P-34	Rare Earth (RE)-Transition Metal (TM) Ferrimagnets for Spintronics	Te-ho Wu
Tu-P-35	High-Temperature Regeneration of Perpendicular Exchange Bias in Pt/Co/Au/Cr ₂ O ₃ /Pt Stacked Films	Yu Shiratsuchi
Tu-P-36	The Magnetic Order of Antiferromagnetic Mn ₃ NiN Thin Films Under Biaxial Strain	Freya Johnson
Tu-P-37	Photocurrents in 3D Topological Insulator Hall Bar and Nanowire Devices	Nina Meyer