

Mon. May 16, 2022

Multipurpose Hall

Opening Remarks1 | Opening Remarks

Opening Remarks1

Arata Tsukamoto (Nihon Univ.)

12:50 PM - 1:00 PM Multipurpose Hall (1F)

[zoom4] [Click here for zoom](#)

[Mo-1250] Opening Remarks1

12:50 PM - 1:00 PM

Oral Presentation | Tutorial talk

Tutorial 1

Chair: Arata Tsukamoto (Nihon Univ.)

1:00 PM - 2:15 PM Multipurpose Hall (1F)

[zoom1] [Click here for zoom](#)

[Tutorial 1] [Click here for zoom](#)

*Sadamichi Maekawa¹ (1. RIKEN, CEMS)

1:00 PM - 2:15 PM

Coffee Break | Coffee Break

Coffee Break

2:15 PM - 2:30 PM Multipurpose Hall (1F)

[Mo-1415] Coffee Break

2:15 PM - 2:30 PM

Oral Presentation | Tutorial talk

Tutorial 2

Chair: Arata Tsukamoto (Nihon Univ.)

2:30 PM - 3:45 PM Multipurpose Hall (1F)

[zoom2] [Click here for zoom](#)

[Tutorial 2] [Click here for zoom](#)

*Mathias Kläui¹ (1. Johannes Gutenberg University Mainz)

2:30 PM - 3:45 PM

Coffee Break | Coffee Break

Coffee Break

3:45 PM - 4:00 PM Multipurpose Hall (1F)

[Mo-1545] Coffee Break

3:45 PM - 4:00 PM

Opening Remarks2 | Opening Remarks

Opening Remarks2

Katsuji Nakagawa (Nihon Univ.)

4:00 PM - 4:15 PM Multipurpose Hall (1F)

[zoom5] [Click here for zoom](#)

[Mo-1600] Opening Remarks2

4:00 PM - 4:15 PM

Oral Presentation | Advanced Light Source and Applications / Magnonics and Antiferromagnetic Materials

Mo-01

Chair: Takuya Satoh (Tokyo Inst. Tech.)

4:15 PM - 6:00 PM Multipurpose Hall (1F)

[zoom3] [Click here for zoom](#)

[Mo-01-1(Invited)] Light-driven Ultrafast Magnetic

Recording

*Ilie Radu^{1,2} (1. European XFEL, Germany, 2. Max Born Institute Berlin, Germany)

4:15 PM - 4:45 PM

[Mo-01-2(Invited)] Ultrafast high-harmonic nanoscopy of magnetization dynamics

*Sergey Zayko¹, Ofer Kfir², Michael Heigl³,

Jakob Hagen¹, Murat Sivas⁴, Manfred

Albrecht³, Claus Ropers¹ (1. Max Planck

Institute for Biophysical Chemistry,

Goettingen, 2. School of Electrical

Engineering, Tel Aviv University, 69978, Tel

Aviv, Israel, 3. Experimentalphysik IV Institut

für Physik Universität Augsburg, Germany, 4.

Physical Institute—Solids and

Nanostructures, University of Göttingen,

Germany)

4:45 PM - 5:15 PM

[Mo-01-3(Invited)] Nonlinear coherent femtosecond spin dynamics in antiferromagnets

*Davide Bossini¹ (1. University of

Konstanz)

5:15 PM - 5:45 PM

[Mo-01-4] MAGNETO-OPTICAL IMAGING OF ANTIFERROMAGNETIC SWITCHING

*Hendrik Meer¹, Felix Schreiber¹, Olena Gomonay¹,

Christin Schmitt¹, Rafael Ramos^{2,3}, Leo Schnitzspan¹,

Mohamad Assaad Mawass⁴, Florian Kronast⁴, Sergio

Valencia⁴, Eiji Saitoh^{2,5,6,7}, Jairo Sinova¹, Lorenzo

Baldrati¹, Mathias Kläui¹ (1. Institute of Physics,

Johannes Gutenberg-University Mainz, 55099 Mainz,

Germany, 2. WPI-Advanced Institute for Materials

Research, Tohoku University, Sendai 980-8577,

Japan, 3. Centro de Investigación en Química Bioló

gica e Materiais Moleculares (CIQUS), Departamento

de Química-Física, Universidade de Santiago de

Compostela, Santiago de Compostela 15782, Spain,

4. Helmholtz-Zentrum Berlin für Materialien und Energie, D-12489 Berlin, Germany, 5. Department of Applied Physics, The University of Tokyo, Tokyo 113-8656, Japan, 6. Center for Spintronics Research Network, Tohoku University, Sendai 980-8577, Japan, 7. Advanced Science Research Center, Japan Atomic Energy Agency, Tokai 319-1195, Japan)
5:45 PM - 6:00 PM

Discussion | Free Discussion

Discussion PM

6:00 PM - 6:15 PM Multipurpose Hall (1F)

[zoom6] [Click here for zoom](#)

[Mo-1800] Free discussion

6:00 PM - 6:15 PM

Tue. May 17, 2022

Multipurpose Hall

Oral Presentation | Novel Magnetic Recording Technologies

Tu-01

Chair: Akira Kikitsu (Toshiba)

9:00 AM - 10:15 AM Multipurpose Hall (1F)

[zoom7] [Click here for zoom](#)

[Tu-01-1(Invited)] Advanced Heat Assisted Magnetic Recording

*Stephanie Hernandez¹, Steven Granz¹,
Cheng-Ming Chow¹, Aneesh Venugopal¹, Ali
Ghoreyshi¹, Darren Karns¹, Pin-Wei Huang¹,
Ganping Ju¹, Thomas Chang¹, Edward Gage¹
(1. Seagate Technology)

9:00 AM - 9:30 AM

[Tu-01-2(Invited)] Key factors of Microwave-assisted magnetic recording design and development of new spin torque oscillator

*Naoyuki Narita¹, Masayuki Takagishi¹, Yuji
Nakagawa¹, Tomoyuki Maeda¹ (1. Toshiba
corporation)

9:30 AM - 10:00 AM

[Tu-01-3] Frequency Dependences of Coercivity in Nickel and Co-Fe-B thin film for DC to 100 kHz region

*Kentarō Toyoki¹, Shunya Matsui¹, Yu Shiratsuchi¹,
Yasushi Endo², Ryoichi Nakatani¹ (1. Osaka
University, 2. Tohoku University)

10:00 AM - 10:15 AM

Coffee Break | Coffee Break

Coffee Break

10:15 AM - 10:30 AM Multipurpose Hall (1F)

[Tu-1015] Coffee Break

10:15 AM - 10:30 AM

Oral Presentation | Novel Magnetic Recording Technologies

Tu-02

Chair: Shin Saito (Tohoku Univ.)

10:30 AM - 11:30 AM Multipurpose Hall (1F)

[zoom8] [Click here for zoom](#)

[Tu-02-1(Invited)] Development of FePt-based HAMR

media and its magnetization dynamics

*Yukiko K Takahashi¹ (1. NIMS)

10:30 AM - 11:00 AM

[Tu-02-2] EJECTION OF BORON FROM L10 PHASE FOR SPUTTERED FEPT-BN GRANULAR FILMS BY POST-ANNEALING

*Daiki Isurugi¹, Gento Tanaka¹, Takashi Saito¹, Kim
Kong Tham², Tomoyuki Ogawa¹, Shin Saito¹ (1.
Tohoku Univ., 2. Tanaka Kikinzoku Kogyo)

11:00 AM - 11:15 AM

[Tu-02-3] THERMAL ACTIVATION ON MICROWAVE ASSISTED MAGNETIZATION SWITCHING IN Co/Pt NANODOT ARRAYS

*Satoshi Mizutani¹, Nobuaki Kikuchi^{1,2}, Masatoshi
Hatayama^{3,4}, Takehito Shimatsu^{2,3,4}, Satoshi
Okamoto^{1,2} (1. IMRAM, Tohoku University, 2. CSRN,
Tohoku University, 3. FRIS, Tohoku University, 4.
RIEC, Tohoku University)

11:15 AM - 11:30 AM

Discussion | Free Discussion

Discussion AM

11:30 AM - 11:45 AM Multipurpose Hall (1F)

[zoom11] [Click here for zoom](#)

[Tu-1130] Free discussion

11:30 AM - 11:45 AM

Lunch Time | Lunch Time

Lunch Time

11:45 AM - 1:15 PM Multipurpose Hall (1F)

[Tu-1145] Lunch Time

11:45 AM - 1:15 PM

Oral Presentation | Ultrafast Dynamics/Reversal

Tu-03

Chair: Yuya Kubota (RIKEN SPring-8 Center)

2:45 PM - 4:15 PM Multipurpose Hall (1F)

[zoom9] [Click here for zoom](#)

[Tu-03-1(Invited)] Ultrafast Switching of Magnetization by

Resonant Excitation of Optical Phonons

*Carl Davies¹ (1. FELIX Laboratory,

Radboud University, Toernooiveld 7, 6525

ED Nijmegen, The Netherlands)

2:45 PM - 3:15 PM

[Tu-03-2(Invited)] Femto- Phono- Magnetism

*Sangeeta Sharma¹, Sam Shallcross¹, Peter

Elliott¹, John Kay Dewhurst² (1. Max Born

Institute, 2. Max Planck Institute Halle)

3:15 PM - 3:45 PM

[Tu-03-3] Sublattice-selective Faraday effect and inverse

Faraday effect in rare earth iron garnets

*Toshiki Hiraoka¹, Ryo Kainuma¹, Keita Matsumoto^{1,2},

Takuya Satoh¹ (1. Department of Physics, Tokyo

Institute of Technology, 2. Department of Physics,

Kyushu University)

3:45 PM - 4:00 PM

[Tu-03-4] Helicity Dependent All-Optical magnetization

Switching on GdFeCo films with optical

interference layer

*Hiroki Yoshikawa¹, Daiki Tajima¹, Yuichi Kasatani¹,

Arata Tsukamoto¹ (1. Nihon University)

4:00 PM - 4:15 PM

Coffee Break | Coffee Break

Coffee Break

4:15 PM - 4:30 PM Multipurpose Hall (1F)

[Tu-1615] Coffee Break

4:15 PM - 4:30 PM

Oral Presentation | Ultrafast Dynamics/Reversal

Tu-04

Chair: Satoshi Okamoto (Tohoku Univ.)

4:30 PM - 6:00 PM Multipurpose Hall (1F)

[zoom10] [Click here for zoom](#)

[Tu-04-1(Invited)] Ultrafast dynamics of antiferromagnets:

switching vs rotation

*Olena Gomonay¹ (1. Johannes Gutenberg

University)

4:30 PM - 5:00 PM

[Tu-04-2(Invited)] Ultrafast control of magnetism by

resonant excitation of electrons and

phonons

*Rostislav Mikhaylovskiy¹ (1. University of

Lancaster)

5:00 PM - 5:30 PM

[Tu-04-3] Surface Plasmon-Driven Photo-Magnetic

Excitation of Spin Dynamics

*Terunori Kaihara¹, Artsiom Kazlou¹, Ilya Razdolski¹,

Andrzej Stupakiewicz¹ (1. University of Bialystok)

5:30 PM - 5:45 PM

[Tu-04-4] ULTRAFAST COHERENT ALL-OPTICAL

SWITCHING OF ANTIFERROMAGNETIC CRPT

WITH THE INVERSE FARADAY EFFECT

*Peter M. Oppeneer¹, Tobias Dannegger², Severin

Selzer², Ulrich Nowak², Karel Carva³, Marco Berritta¹,

Ulrike Ritzmann¹ (1. Dept. of Physics and Astronomy,

Uppsala University, S-75120 Uppsala, Sweden, 2.

Fachbereich Physik, Universität Konstanz, D-78457

Konstanz, Germany, 3. Charles University, Department

of Condensed Matter Physics, CZ-12116, Prague,

Czech Republic)

5:45 PM - 6:00 PM

Discussion | Free Discussion

Discussion PM

6:00 PM - 6:15 PM Multipurpose Hall (1F)

[zoom12] [Click here for zoom](#)

[Tu-1800] Free discussion

6:00 PM - 6:15 PM

Tu-P-A

Poster Presentation | Magneto-optical/Optical Phenomena and Devices

Tu-P

Chair: Fumiko Akagi (Kogakuin Univ.)

1:15 PM - 2:45 PM Tu-P-A (1F)

[zoom13] [Click here for zoom](#)

[Tu-P-01] Analysis of electromagnetic fields with

magnetization dynamics by multiscale modeling

*Seiya Kishimoto¹, Yuta Ito¹, Takumi Yasuda¹, Katsuji

Nakagawa¹, Shinichiro Ohnuki¹ (1. Nihon

University)

[Tu-P-03] Development of observation method of

magnetic interference fringes by scanning

magneto-optical microscopy

*Konan Mukuo¹, Ryoya Suzuki¹, Yuichi Nakamura¹,

Pang Boey Lim¹ (1. Toyohashi Tech.)

[Tu-P-05] Pre-annealing temperature dependence on magneto-optical effect of bismuth iron garnet films fabricated by metal organic decomposition method

*Yoshito Ashizawa¹, Hiroyuki Tsuno¹, Hiroki Hosaka², Katsuji Nakagawa¹ (1. College of Science and Technology, Nihon University, 2. Graduate School of Science and Technology, Nihon University)

Tu-P-B

Poster Presentation | Ultrafast Dynamics/Reversal

Tu-P

Chair: Fumiko Akagi (Kogakuin Univ.)

1:15 PM - 2:45 PM Tu-P-B (1F)

[zoom14] [Click here for zoom](#)

[Tu-P-07] Landau-Lifshitz-Gilbert Simulation on the Recovery Dynamics of Magnetically Reversed Materials

*Tomoaki Senoo¹, Toshihide Sumi¹, Masafumi Horio¹, Souliman EL MOUSSAOUI¹, Arata Tsukamoto², Iwao Matsuda¹ (1. The Institute for Solid State Physics, the University of Tokyo, 2. College of Science and Technology, Nihon University)

[Tu-P-08] Electrical detection and current control of All-Optical magnetization Switching in GdFeCo ferrimagnetic alloy thin film

*Yuichi Kasatani¹, Hiroki Yoshikawa¹, Arata Tsukamoto¹ (1. Nihon Univ.)

[Tu-P-09] Magnetization Dynamics of GdFeCo/Cu/FeCo Trilayers Triggered by Ultrashort Pulsed Laser Kazuya Seguchi¹, Daiki Oshima¹, *Takeshi Kato¹ (1. Nagoya University)

[Tu-P-10] Modification of dynamic properties by extrinsic interaction in double layered ferrimagnetic film

*Arata Tsukamoto¹, Tokio Takahashi¹, Hiroki Yoshikawa¹ (1. Nihon University)

[Tu-P-11] Ultrafast magnetisation reversal in GdFeCo explored using dynamic magnetisation rescaling

*Jackson Lee Ross¹, Sergiu Ruta¹, Richard F. L. Evans¹, Roy W. Chantrell¹ (1. University of York)

[Tu-P-12] SEARCH FOR NONLINEAR THZ ABSORPTION BY ELECTROMAGNONS IN MULTIFERROIC HEXAFERRITES

*Jakub Vit^{1,2,3}, Dalibor Repcek^{1,2}, Christelle Kadlec¹, Filip Kadlec¹, Nidhi Adhlaka⁴, Paola di Pietro⁴,

Federica Piccirilli^{4,5}, Sergey Kovalev⁶, Jan-Christoph Deinert⁶, Igor Ilyakov⁶, Nilesh Awari⁶, Min Chen⁶, Josef Bursik⁷, Chang Bae Park⁸, Kee Hoon Kim^{8,9}, Michael Gensch^{10,11}, Andrea Perucchi⁴, Stanislav Kamba¹ (1. Institute of Physics of the Czech Academy of Sciences, Prague, Czechia, 2. Faculty of Nuclear Science and Physical Engineering, Czech Technical University, Prague, Czechia, 3. Department of Physics, Budapest University of Technology and Economics, 1111 Budapest, Hungary, 4. Elettra-Sincrotrone Trieste, Trieste, Italy, 5. CNR-IOM, Area Science Park, Trieste, Italy, 6. Helmholtz Zentrum Dresden Rossendorf, Dresden, Germany, 7. Institute of Inorganic Chemistry, Czech Academy of Sciences, Rez, Czech Republic, 8. Center for Novel States of Complex Materials Research, Department of Physics and Astronomy, Seoul National University, Seoul, Korea, 9. Institute of Applied Physics, Department of Physics and Astronomy, Seoul National University, Seoul, Korea, 10. Institute of Optical Sensor Systems, German Aerospace Center (DLR), Berlin, Germany, 11. Institute of Optics and Atomic Physics, Technische Universität Berlin, Berlin, Germany)

Wed. May 18, 2022

Multipurpose Hall

Coffee Break | Coffee Break

Coffee Break

10:30 AM - 10:45 AM Multipurpose Hall (1F)

[We-1030] Coffee Break

10:30 AM - 10:45 AM

Oral Presentation | Magnonics and Antiferromagnetic Materials

We-01

Chair: Koji Sekiguchi (Yokohama Natl. Univ.)

10:45 AM - 11:45 AM Multipurpose Hall (1F)

[zoom15] [Click here for zoom](#)

[We-01-1 (Invited)] Helicity-changing Brillouin light scattering by magnons in a ferromagnetic crystal

*Ryusuke Hisatomi¹ (1. Kyoto university)

10:45 AM - 11:15 AM

[We-01-2] DYNAMICAL COUPLING OF MAGNON AND PHONON-POLARITON IN BISMUTH FERRITE

*Ryo Kainuma¹, Keita Matsumoto^{1,2}, Toshimitsu Ito³,

Takuya Satoh¹ (1. Dep. of Phys., Tokyo Tech, 2. Dep. of Phys., Kyushu Univ., 3. AIST)
11:15 AM - 11:30 AM

[We-01-3] Magneto-optical imaging of magnetic domains in a non-collinear chiral antiferromagnet Mn₃Ir
*Kihiro Yamada¹, Kotarou Yamaguchi¹, Yuta Kobayashi², Teruo Ono², Takahiro Moriyama², Takuya Satoh¹ (1. Tokyo Institute of Technology, 2. Kyoto University)
11:30 AM - 11:45 AM

Discussion | Free Discussion

Discussion AM

11:45 AM - 12:00 PM Multipurpose Hall (1F)

[zoom19] [Click here for zoom](#)

[We-1145] Free discussion

11:45 AM - 12:00 PM

Lunch Time | Lunch Time

Lunch Time

12:00 PM - 1:30 PM Multipurpose Hall (1F)

[We-1200] Lunch Time

12:00 PM - 1:30 PM

Oral Presentation | New Concepts and New Materials/Devices

We-02

Chair: Hiroyuki Awano (Toyota Tech. Inst.)
1:30 PM - 2:30 PM Multipurpose Hall (1F)

[zoom16] [Click here for zoom](#)

[We-02-1 (Invited)] Microscopic views of the spin current carrier in insulating spintronic materials
*Yusuke Nambu^{1,2,3} (1. Institute for Materials Research, Tohoku Univ., 2. Organization for Advanced Studies, Tohoku Univ., 3. FOREST, Japan Science and Technology Agency)
1:30 PM - 2:00 PM

[We-02-2] Optical and magneto-optical properties of solid, Co-doped and reduced CeO₂ epitaxial ultrathin films in 1-5 eV photon energy range
*Jan Hrabovsky¹, Jan Kubat², Andrii Tovt², Viktor Johaneck², Lukas Beran¹, Lukas Ohnoutek¹, Jakub Zazvorka¹, Josef Myslivecek², Martin Veis¹ (1. Faculty of Mathematics and Physics, Institute of Physics, Division of Magneto-optics, Charles

University, Prague, Ke Karlovu 2027/3, 121 16 Prague, 2. Faculty of Mathematics and Physics, Department of Surface and Plasma Science, Charles University, Prague, V Holešovičkách 2, Prague 8, 180 00, Czech Republic)
2:00 PM - 2:15 PM

[We-02-3] Spin orbit torques in ferrimagnetic Gd/FeCo multilayers
*Shunsuke Yanai¹, Daiki Oshima¹, Shigeki Takahashi², Yoshiyuki Hirayama², Takeshi Kato¹ (1. Nagoya Univ., 2. Samsung R&D Institute Japan)
2:15 PM - 2:30 PM

Coffee Break | Coffee Break

Coffee Break

2:30 PM - 2:45 PM Multipurpose Hall (1F)

[We-1430] Coffee Break

2:30 PM - 2:45 PM

Oral Presentation | New Concepts and New Materials/Devices

We-03

Chair: Satoshi Tomita (Tohoku Univ.)
2:45 PM - 4:00 PM Multipurpose Hall (1F)

[zoom17] [Click here for zoom](#)

[We-03-1 (Invited)] Towards spintronic – photonic integration
*Bert Koopmans¹ (1. Eindhoven University of Technology)
2:45 PM - 3:15 PM

[We-03-2 (Invited)] Materials for ultrafast magnetism and THz spintronics
*Jakob Walowski¹ (1. University of Greifswald)
3:15 PM - 3:45 PM

[We-03-3] Spin Current Generation by a Surface Plasmon Polariton
David C Lloyd¹, Theodoros Jonathan Wijaya², Daigo Oue³, Mamoru Matsuo⁴, Yasutoshi Ito⁵, Hironaga Uchida⁵, Mitsuteru Inoue⁵, *Atsufumi Hirohata¹ (1. University of York, 2. University of Tokyo, 3. Imperial College London, 4. University of Chinese Academy of Sciences, 5. Toyohashi University of Technology)
3:45 PM - 4:00 PM

Coffee Break | Coffee Break

Coffee Break

4:00 PM - 4:15 PM Multipurpose Hall (1F)

[We-1600] Coffee Break4:00 PM - 4:15 PM

Oral Presentation | Magnetic Materials Fabrication and Engineering

We-04

Chair: Yu Shiratsuchi (Osaka Univ.)

4:15 PM - 5:45 PM Multipurpose Hall (1F)

[zoom18] [Click here for zoom](#)**[We-04-1(Invited)] stronNon-collinear Mn3NiN**

Antiferromagnets

*Lesley Cohen¹ (1. Imperial College
London)4:15 PM - 4:45 PM

**[We-04-2(Invited)] Magneto-optical metasurface: an
emerging platform for flexible control
of light with magnetism**Weihao Yang¹, Jun Qin¹, Jiawei Long¹,
Chaoyang Li¹, En Li¹, Longjiang Deng¹,
Qingyang Du², Juejun Hu³, *Lei Bi¹ (1.
University of Electronic Science and
Technology of China, 2. Xiamen University,
3. Massachusetts Institute of Technology)
4:45 PM - 5:15 PM

**[We-04-3] Fast Current Induced Domain Wall Motion in
Compensated GdFeCo Nanowire***Sina Ranjbar¹, Satoshi Sumi¹, Kenji Tanabe¹,
Hiroyuki Awano¹ (1. Toyota Technological Institute,
Nagoya 468-8511, Japan)
5:15 PM - 5:30 PM

**[We-04-4] Deterministic Generation and Motion of
Magnetic Skyrmions***Lisa-Marie Kern¹, Victor Deinhart^{1,2,3}, Kathinka
Gerlinger¹, Christopher Klose¹, Michael Schneider¹,
Dieter Engel¹, Christian Günther⁴, Katja Höflich^{2,3},
Riccardo Battistelli³, Daniel Metternich³, Felix Büt
tner³, Bastian Pfau¹, Stefan Eisebitt^{1,5} (1. Max Born
Institute Berlin, Germany, 2. Ferdinand-Braun-Institut
gGmbH, Leibniz-Institut für Höchstfrequenztechnik,
Berlin, Germany, 3. Helmholtz Zentrum für
Materialien und Energie Berlin, Germany, 4.
Zentraleinrichtung Elektronenmikroskopie (ZELMI),
Technische Univ. Berlin, Germany, 5. Institut für
Optik und Atomare Physik, Technische Univ. Berlin,
Germany)
5:30 PM - 5:45 PM

Discussion | Free Discussion

Discussion PM5:45 PM - 6:00 PM Multipurpose Hall (1F)

[zoom20] [Click here for zoom](#)**[We-1745] Free discussion**5:45 PM - 6:00 PM

Award Ceremony | Award Ceremony

Award Ceremony6:00 PM - 6:15 PM Multipurpose Hall (1F)

[zoom21] [Click here for zoom](#)**[We-1800] Award Ceremony**6:00 PM - 6:15 PM

Move to Banquet | Banquet

Move to Banquet6:15 PM - 7:15 PM Multipurpose Hall (1F)

[We-1815] Move to Banquet6:15 PM - 7:15 PM

Banquet | Banquet

BanquetChair: Takayuki Ishibashi (Nagaoka Univ. Tech.)
7:15 PM - 9:15 PM Multipurpose Hall (1F)

[zoom22] [Click here for zoom](#)**[We-1915] Banquet**7:15 PM - 9:15 PM

We-P-A

Poster Presentation | Novel Magnetic Recording Technologies

We-PChair: Yoshito Ashizawa (Nihon Univ.)
9:00 AM - 10:30 AM We-P-A (1F)

[zoom23] [Click here for zoom](#)**[We-P-01] Relationship between temperature rise and
thermal conductivity in a magnetic medium for
heated dot magnetic recording**
*Fumiko Akagi¹, Naofumi Matsushima¹ (1. Kogakuin
University)**[We-P-02] CURRENT INDUCED MAGNETIZATION
SWITCHING WITH A LASER ASSIST**
*Satoshi Sumi¹, Sina Ranjbar¹, Kenji Tanabe¹,
Hiroyuki Awano¹ (1. Toyota Technological
Institute)**[We-P-03] EXPERIMENTAL STUDY OF TRACK-EDGE
NOISE EFFECT TO PARAMETRIC TESTS IN**

HEAT-ASSISTED MAGNETIC RECORDING

*Prasit Kampun¹, Lertsak Lekawat¹, Damrongsak Tongsomporn² (1. King Mongkut's Institute of Technology Ladkrabang, 2. Seagate Technology (Thailand) Ltd., Samutprakarn)

[We-P-04] Microwave assisted switching in granular media with continuous capping layers for interaction control

*Nobuaki Kikuchi¹, Katsunari Sato¹, Takehito Shimatsu¹, Osamu Kitakami¹, Satoshi Okamoto¹ (1. Tohoku Univ.)

We-P-B

Poster Presentation | Magnetic Materials Fabrication and Engineering

We-P

Chair: Yoshito Ashizawa (Nihon Univ.)
9:00 AM - 10:30 AM We-P-B (1F)

[zoom26] [Click here for zoom](#)

[We-P-05] Formation of Fe-Co/glass multilayered films using Pulsed Laser Deposition

*MASAKI NAKANO¹, MASARU ITAKURA², HIBIKI KAKU¹, AKIHIRO YAMASHITA¹, TAKESHI YANAI¹, HIROTOSHI FUKUNAGA¹ (1. Nagasaki University, 2. Kyushu University)

[We-P-06] Effect of N₂ addition on nanostructure and magnetic properties of sputtered FePt-TiN granular films during deposition for heat assisted magnetic recording

*Kim Kong Tham¹, Ryosuke Kushibiki¹, Takashi Saito², Shin Saito² (1. Tanaka Kikinzoku Kogyo, 2. Tohoku Univ.)

We-P-C

Poster Presentation | Magnonics and Antiferromagnetic Materials

We-P

Chair: Yoshito Ashizawa (Nihon Univ.)
9:00 AM - 10:30 AM We-P-C (1F)

[zoom24] [Click here for zoom](#)

[We-P-07] Study on Epitaxial growth of Y₃Fe₅O₁₂ FILM on 128° Y-X LiNbO₃ substrate

*KAZUTO Yamanoi¹, Kenta Hase¹, Yukio Nozaki¹ (1. Keio Univ.)

[We-P-08] Preparation and characterization of YMnO₃ thin films by metal-organic decomposition

*Kanata Watanabe¹, Masami Nishikawa¹, Martin

Veis², Takayuki Ishibashi¹ (1. Nagaoka University of Technology, 2. Charles University)

[We-P-09] Observation of Bright Spin-wave Envelope Soliton Trains

*Takuro Eguchi¹, Mikito Kawase¹, Koji Sekiguchi¹ (1. Yokohama National Univ.)

We-P-D

Poster Presentation | New Concepts and New Materials/Devices

We-P

Chair: Yoshito Ashizawa (Nihon Univ.)
9:00 AM - 10:30 AM We-P-D (1F)

[zoom25] [Click here for zoom](#)

[We-P-10] All-Optical Investigation of Spin Mixing

Conductance in Co₂MnSi/Pt Epitaxial Heusler Alloy Thin Film

*Yuta Sasaki¹, Shinya Kasai^{1,2}, Yukiko K Takahashi¹ (1. National Institute for Materials Science, 2. JST, PRESTO)

[We-P-11] COBALT/PLATINUM SUPERLATTICES

TOWARDS TIME-VARYING METAMATERIALS

*Satoshi Tomita¹, Nobuaki Kikuchi¹, Satoshi Okamoto¹ (1. Tohoku University)

We-P-E

Poster Presentation | Advanced Light Source and Applications

We-P

Chair: Yoshito Ashizawa (Nihon Univ.)
9:00 AM - 10:30 AM We-P-E (1F)

[zoom27] [Click here for zoom](#)

[We-P-12] Magnetic Field Microscope Using High

Sensitive AC Field Modulation GMR Sensor

*Akira Kikitsu¹, Yoshihiro Higashi¹, Yoshinari Kurosaki¹, Satoshi Shirotori¹, Takehiro Nagatsuka², Kazuhiro Suzuki², Yuji Terui² (1. Toshiba Corp., 2. Toshiba Nanoanalysis Corp.)

Thu. May 19, 2022

Multipurpose Hall

Oral Presentation | Magneto-optical/Optical Phenomena and Devices

Th-01

Chair: Takayuki Ishibashi (Nagaoka Univ. Tech.)
9:45 AM - 10:45 AM Multipurpose Hall (1F)

[zoom28] [Click here for zoom](#)

[Th-01-1 (Invited)] Emergent phenomena in two-dimensional magnetic crystals
 *Bevin Huang¹, Xiaodong Xu² (1. Massachusetts Institute of Technology, 2. University of Washington)
 9:45 AM - 10:15 AM

[Th-01-2] PECULIAR TEMPERATURE DEPENDENCE OF MAGNETO-OPTIC KERR ROTATION IN Pt/Co/Spacer (Ir, Pt)/Cr₂O₃/Pt THIN FILM
 *Yu Shiratsuchi¹, Takashi Okano¹, Hiroufmi Ekawa¹, Hiroki Sakurai¹, Kentaro Toyoki¹, Takeshi Kato², Ryoichi Nakatani¹ (1. Osaka University, 2. Nagoya University)
 10:15 AM - 10:30 AM

[Th-01-3] CRYSTALLIZATION OF MAGNETO-OPTICAL BISMUTH YTTRIUM IRON GARNET FILMS ON SILICON SUBSTRATES
 *Kensuke Hayashi¹, Caroline Anne Ross¹ (1. Massachusetts Institute of Technology)
 10:30 AM - 10:45 AM

Coffee Break | Coffee Break

Coffee Break
 10:45 AM - 11:00 AM Multipurpose Hall (1F)

[Th-1045] Coffee Break
 10:45 AM - 11:00 AM

Oral Presentation | Advanced Light Source and Applications

Th-02
 Chair: Masaaki Takezawa (Kyushu Inst. Tech.)
 11:00 AM - 11:45 AM Multipurpose Hall (1F)

[zoom29] Click here for zoom

[Th-02-1 (Invited)] Photo-induced ultrafast magnetization dynamics of ferromagnetic thin films studied by x-ray free electron lasers
 *Kohei Yamamoto¹ (1. Institute for Molecular Science)
 11:00 AM - 11:30 AM

[Th-02-2] New Experimental Station for Soft-XFEL Optospintronics at SACLA
 *Yuya Kubota¹, Iwao Matsuda², Makina Yabashi^{1,3} (1. RIKEN, 2. ISSP, Univ. of Tokyo, 3. JASRI)
 11:30 AM - 11:45 AM

Discussion | Free Discussion

Discussion AM
 11:45 AM - 12:00 PM Multipurpose Hall (1F)

[zoom31] Click here for zoom

[Th-1145] Free discussion
 11:45 AM - 12:00 PM

Lunch Time | Lunch Time

Lunch Time
 12:00 PM - 1:30 PM Multipurpose Hall (1F)

[Th-1200] Lunch Time
 12:00 PM - 1:30 PM

Oral Presentation | Magneto-optical/Optical Phenomena and Devices

Th-03
 Chair: Takeshi Kato (Nagoya Univ.)
 1:30 PM - 3:00 PM Multipurpose Hall (1F)

[zoom30] Click here for zoom

[Th-03-1 (Invited)] Magneto-optics of all-dielectric metasurfaces
 *Daria O Ignatyeva^{1,2}, Vladimir I Belotelov^{1,2}
 (1. RQC, 2. MSU)
 1:30 PM - 2:00 PM

[Th-03-2 (Invited)] Toward next-generation spin-orbitronics with orbital currents
 *Dongwook Go¹ (1. Juelich Research Centre)
 2:00 PM - 2:30 PM

[Th-03-3] ANISOTROPY OF LONGITUDINAL MAGNETO-OPTICAL KERR EFFECT CAUSED BY CUBIC-IN-MAGNETIZATION CONTRIBUTION
 *Robin Silber¹, Maik Gaerner², Tobias Peters², Jaroslav Hamrle³, Timo Kuschel² (1. IT4Innovations, VŠB-Technical University of Ostrava, Ostrava 70800, Czech Republic, 2. Center for Spinelectronic Materials and Devices, Department of Physics, Bielefeld University, 3 Bielefeld 33615, Germany, 3. Faculty of Mathematics and Physics, Charles University, Prague 12116, Czech Republic)
 2:30 PM - 2:45 PM

[Th-03-4] Development of Magneto-Optical 3D Holographic Display with Wide Viewing Angle and Low Distortion Using Micro Lens Array
 *Sena Yamagishi¹, Yasutoshi Ito¹, Yamamoto Yuta¹, Shinitirou Mito², Hideyoshi Horimai³, Mitsuteru Inoue⁴, Hironaga Uchida¹ (1. Toyohashi University of Technology, 2. National Institute of Technology, Tokyo College, 3. Holymine, 4. National Institute of Technology)

2:45 PM - 3:00 PM

Closing Remarks | Closing Remarks

Closing Remarks

Takeshi Kato (Nagoya Univ.)

3:00 PM - 3:15 PM Multipurpose Hall (1F)

[zoom32] [Click here for zoom](#)

[Th-1500] Closing Remarks

3:00 PM - 3:15 PM