

Poster presentation

Wednesday Nov. 26, 18:20 ~ 20:00

P-01 Development of High Diffraction Efficiency VUV & Soft X-Ray Diffraction Gratings at KPSI, QST

Masato Koike^{1,2,3}, Alexander S. Pirozhkov¹, Tadashi Hatano², Takanori Murano^{3,4}, Yuki Oue⁵, Shogo Koshiya⁴, Tsubasa Kakio⁵, Yoshihiro Ueno⁶, Kiminori Kondo¹, Masami Terauchi²

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P-02 Multilayer mirrors for EUV and X-ray applications

Masatoshi Hatayama, Satoshi Ichimaru
NTT Advanced Technology Corporation

P-03 Unraveling Photon-Energy and Thickness Dependent Charging of SiO₂ Thin Films

Archit Dhingra¹, Grzegorz Greczynski²

1)FinEstBeAMS, MAX IV-laboratoriet, Lunds Universitet, 2)Thin Film Physics Division, Department of Physics, Chemistry, and Biology (IFM), Linköping University

P-04 Exploring the temperature dependent magnetic moment of all-optical magnetization switching Heusler compounds using x-ray magnetic circular dichroism

Bentley Phillip David¹, Li Songtian², Ueno Tetsuro^{2,3}, Itakura Ryuji¹, Amemiya Kenta⁴, Sakai Seiji²

1) Kansai Institute for Photon Science, QST, 2)Quantum Materials and Applications Research Center, QST, 3)Synchrotron Radiation Research Center, QST, 4)Photon Factory, Institute of Materials Structure Science, High Energy Accelerator Research Organization KEK

P-05 Reflection Soft X-ray Fine Structure Spectroscopy Using an Ultrashort Laser-based Light Source

Hung-Wei Sun¹, Ryunosuke Takahashi², Nobuhisa Ishii¹, Momoko Maruyama¹, Kohei Yoshimatsu³, Hiroki Wadati², Ryuji Itakura¹

1)QST KPSI, 2)Univ. of Hyogo, 3)Science Tokyo

P-06 Proposal of a new simulation model for x-ray ablation

Kengo Moribayashi
Kansai Institute for Photon Science, QST

P-07 Plasma-Mirror Frequency-Resolved Optical Gating (PM-FROG) using a liquid-sheet jet

Tomoyuki Endo, Masaaki Tsubouchi, Ryuji Itakura
Kansai Institute for Photon Science, QST

P-08 Parametric generation of ultrashort mid-IR light pulses with BBO crystals

Yutaka Akahane
Kansai Institute for Photon Science, QST

P-09 Toward ToF-SP-PMM for the Study of Dynamic Electronic States

Shigemasa Suga
SANKEN, Osaka University

P-10 Verification of multi-atom resonant photoemission by simultaneous irradiation with electron beam and soft X-ray synchrotron radiation

Kenichi Ozawa^{1,2}, Mase Kazuhiko^{1,2}
1)Institute of Materials Structure Science, High Energy Accelerator Research Organization, 2)SOKENDAI (The Graduate University for Advanced Studies)

P-11 High-pressure synthesis of aluminum-molybdenum alloy hydride with the aid of synchrotron radiation x-rays

Yuki Moritaka^{1,2}, Reina Utsumi¹, Hiroyuki Saitoh^{1,2}, Tetsu Watanuki^{1,2}
1)QST, 2)University of Hyogo

P-12 Improving the moisture resistance of SiC/Mg multilayer mirror to select the 42 eV peak from high-order harmonics

Hisataka Takenaka¹, Suet Yi Liu¹, Yuya Iwamoto¹, Satoshi Ichimaru², Hiroki Mashiko^{2,4}, Masatoshi Hatayama³, Isao Shinozuka, Affiliation², Eric Gullikson³, Tomoya Mizuno⁴, Takayuki Kurihara⁴, Jiro Itatani⁴
1)TOYAMA Co. Ltd., 2)NTT Advanced Technology Corporation, 3)Center for X-ray Optics, Lawrence Berkeley National Laboratory, 4)Institute for Solid State Physics, the University of Tokyo

P-13 Development of time-resolved Spin-ARPES achieving sub-100fs time resolution

Nagi Suzuki¹, Shin Yokoyama^{1,2}, Ko Sasaki^{1,2}, Takuma Iwata^{1,2}, Akio Kimura^{1,2,3}, Koji Miyamoto⁴, Taichi Okuda^{2,3,4}, Kenta Kuroda^{1,2,3}
1)Graduate School of Advanced Science and Engineering, Hiroshima University, 2)WPI-SKCM2, Hiroshima University, 3)RISE, Hiroshima University, 4)HiSOR, Hiroshima University

P-14 Resonant Optical Coupling between the Topological Surface State and Unoccupied State in Bi₂Te₃

Shin Yokoyama^{1,2}, Takahito Takeda¹, Nagi Suzuki¹, Takuma Iwata^{1,2}, Ping Zhou³, Yogendra Kumar⁴, Akio Kimura^{1,2,5}, Koji Miyamoto⁴, Taichi Okuda^{2,4,5}, Mario Novac⁶, Uwe Bovensiepen³, Kenta Kuroda^{1,2,5}
1)Graduate School of Advanced Science and Engineering Hiroshima University, 2)WPI-SKCM2 Hiroshima University, 3)Duisburg University, 4)HiSOR Hiroshima University, 5)RISE Hiroshima University, 6) Zagreb University,

P-15 Theoretical Study of Magnetic Circular Dichroism in X-ray Photoemission Spectroscopy for Itinerant 3d Transition Metals

Hiroki Kobayashi^{1,2}, Takuji Nomura^{1,2}
1)Synchrotron Radiation Research Center, QST, 2)Graduate School of Material Science, University of Hyogo

P-16 Numerical Study of Time-Resolved Single-Particle Spectra on Photoexcited Mott Insulators

Kenji Tsutsui
Synchrotron Radiation Research Center, QST

P-17 Structural analysis of Strontium Titanate using Multiple scattering theory

Shin Yasuda¹, Mariko Terao-Dunseath², Kevin Dunseath², Philippe Schieffer²,
Didier Sébilleau², Sylvain Tricot², Keisuke Hatada¹
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(Institut de Physique de Rennes)

P-18 Creation of highly charged gold ion beam through collisional ionizations in a dense gold plasma driven by a femtosecond petawatt laser

Masayasu Hata¹, Chang Liu², James Kevin Koga¹, Natsumi Iwata³, Yasuhiko
Sentoku³, Mamiko Nishiuchi¹
1)QST, 2)Helmholtz-Zentrum Dresden-Rossendorf, 3)The University of Osaka

P-19 Stabilization Mechanism of Multiple Skyrmion Lattices in EuAl4: High resolution ARPES

Yuki Arai¹, Kosuke Nakayama¹, Asuka Honma¹, Seigo Soma^{2,3}, Daisuke Shiga⁴,
Koji Kumigashira⁴, Takashi Takahashi¹, Koji Segawa⁵, Takafumi Sato^{1,2,3}
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3)CSIS, Tohoku University, 4)IMRAM, Tohoku University, 5)Department of
Physics, Kyoto Sangyo University

P-20 High-Repetition Laser-Driven Heavy-Ion Acceleration via TNSA with Optimized Target Delivery and Debris Control

Sadaoki Kojima¹, Hironao Sakaki¹, Thanh Hung Dinh¹, Masayasu Hata¹, Norihiro
Inoue², Kiminori Kondo¹
1)QST, 2)Kanadevia Corporation

P-21 Experiments using the soft X-ray beamline at SACLA

James R Harries
QST

P-22 Fe L-edge absorption spectromicroscopy of red blood cells based on contact soft X-ray microscopy

Ryohei Sasaba^{1,2}, Hiroshi Iwayama², Hitomi Sawai^{2,3}, Yudai Kitaguchi³
1)The University of Osaka, 2)Institute for Molecular Science, 3)Osaka Metropolitan
University

P-23 Development of X-ray-detected ferromagnetic resonance spectrometer for observation of spin and orbital currents

Tetsuro Ueno¹, Yasuo Takeichi², Masaki Mizuguchi³, Hideaki Iwasawa¹, Yoshiyuki
Ohtsubo¹, Kanta Ono⁴, Hiroyuki Okazaki¹, Songtian Li¹, Seiji Sakai¹, Tetsuya
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1)QST, 2)High Energy Accelerator Research Organization, 3)Nagoya University,
4)The University of Osaka, 5)Univerisity of Tsukuba

P-24 Beam Diagnostics of Laser-Driven Ion Acceleration Using a Beam Position Monitor

Nobuatsu Aoki^{1,2}, Tsuyoshi Suwada³, Hironao Sakaki^{1,2}, Sadaoki Kojima², Sayaka Oishi⁴, Thanh-Hung Dinh², Yoichi Yamamoto², Huyumi Itou², Haruya Matsumoto^{1,2}, Masaharu Nishikino², Toshiyuki Shirai², Kiminori Kondo²

1)Kyushu University, 2) QST, 3)High Energy Accelerator Research Organization (KEK), 4)Nara Women's University

P-25 Observation of Dynamics of Monolayer MoSe₂ for Polariton Formation

Honoka Ueki¹, Garrek Stemo¹, Tomoyuki Endo², Seiji Sakai³, Ryuji Itakura², Hiroyuki Katsuki¹

1)NAIST, 2)QST Kansai, 3)QST Takasaki

P-26 cancel

P-27 Electronic structure of quenching carbon with high catalytic performance

Hiroyuki Okazaki¹, Yuji Muraoka²

1)QST, 2)Okayama university

P-28 Fiber-optic LIBS system for remote elemental analysis in extreme radiation environments using microchip laser

Ryuzo Nakanishi¹, Koji Tamura¹, Hironori Ohba^{1,2}

1)QST, 2)Japan Atomic Energy Agency

P-29 Ultrafast spin-polarized current generation induced by linearly polarized light on three-dimensional topological insulator surfaces

Yasushi Shinohara^{1,2}, Haruki Sanada¹, Katsuya Oguri¹

1)NTT Basic Research Laboratories, 2)NTT-TQP

P-30 Integrative structural modeling of macromolecular complexes using Small Angle Scattering and MD simulations

Atsushi Matsumoto

QST

P-31 Photoelectron Angular Distributions for tracking H₂O bond angle in femtosecond X-ray-induced dynamics

Satoshi Mitsui¹, Daichi Kobayashi¹, Sigeru Abe¹, Yoshiaki Tamura¹, Keisuke Hatada¹, Kiyoshi Ueda², Till Jahnke³, Ludger Inhester⁴, Robin Santra^{4,5}

1)Dep. Phys., Univ. Toyama, 2)Graduate School of Science, Tohoku Univ., 3)EuXFEL, 4)DESY, 5)Dep. Phys., Univ. Hamburg

P-32 Development of compact, high-repetition plasma-based EUV lasers

Thanh-Hung Dinh¹, Noboru Hasegawa¹, Masahiko Ishino¹, Masayasu Hata¹, Shinichi Namba², Masaharu Nishikino¹,

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P-33 Development of Laser Hammering System for smart infra-management

Noboru Hasegawa¹, Masaharu Nishikino¹, Hajime Okada¹, Shuji Kondo¹, Satoshi Tomoto², Hikaru Matsunaga², Toshihiro Somekawa³, Shinri Kurahashi³, Hikaru Nakamura⁴

1)QST, 2)CTI Engineering Co., Ltd., 3)Institute for Laser Technology, 4)Nagoya University

- P-34 Development of structural analysis in solution by combining soft X-ray absorption and Raman spectroscopies**
Morihiisa Saeki¹, Takakazu Nakabayashi², Ryuzo Nakanishi¹, Kentaro Fujii¹
1)QST, 2)Tohoku University
- P-35 Mono-energetic MeV Protons from the Laser-Facing Side via Boosted Coulomb Explosion**
Tianyun Wei¹, Masaki Kando¹, Takehito Hayakawa¹, Nobuhiko Nakanii¹, Kotaro Kondo¹, Yanjun Gu², Zechen Lan³, Yasunobu Arikawa³, Akifumi Yogo³
1)QST, 2)SANKEN, the University of Osaka, 3) ILE, the University of Osaka
- P-36 Graded Multilayer Mirror for EUV Microscopy**
Yuta Fujisawa¹, Tetsuya Kurematsu¹, Masahiko Ishino², Mitsunori Toyoda¹
1)Tokyo Polytechnic University, 2)QST
- P-37 Bragg coherent X-ray diffraction imaging technique for mechanistic interpretation of crystalline nanoparticles' functional performance**
Norihiko Oshime¹, Fumitaka Takeiri^{2,3}, Kenji Ohwada¹, Genki Kobayashi^{3,4}, Akihiko Machida¹, Tetsu Watanuki¹, Kento Sugawara¹, Ayumu Shimada¹
1)QST KPSI SRRC, 2)Kindai University, 3)RIKEN, 4)Waseda Univ.
- P-38 Development of XUV free electron laser based on laser plasma accelerator in Japan**
Nobuhiko Nakanii^{1,3}, Zhan Jin^{2,3}, Kai Huang^{1,2,3}, Yan-Jun Gu^{2,3}, Toshiya Muto^{2,3,4}, Shigeru Yamamoto^{3,5}, Shingo Sato^{2,3}, Izuru Daito¹, Tomonao Hosokai^{2,3}, Masaki Kando^{1,2,3}
1) QST, 2)The University of Osaka, 3)SPRING-8 Center RIKEN, 4)Tohoku University, 5)High Energy Accelerator Research Organization(KEK)
- P-39 Current status of NanoTerasu BL06U: Soft x-ray beamline for nano ARPES**
Miho Kitamura, Fumi Nishino, Hideaki Iwasawa, Nobuhito Inami, Tomoyuki Takeuchi, Takashi Imazono, Jun Miyawaki, Kohei Yamamoto, Yoshiyuki Ohtsubo, Takeshi Nakatani, Kento Inaba, Akane Agui, Kentaro Fujii, Hiroaki Kimura, Koji Horiba
NanoTerasu Center, QST
- P-40 Resonant inelastic x-ray scattering reveals electron transfer dynamics in blue copper proteins**
Ugalino Ralph^{1,2}, Yamamoto Kohei², Izumi Yudai³, Miyawaki Jun², Fujii Kentaro^{1,2}
1)Institute for Quantum Life Science, QST, 2)NanoTerasu Center, QST, 3)UVSOR, Institute for Molecular Sciences
- P-41 Aiming at nanofabrication of Si Solar Cell Surfaces by Soft X-Ray Laser Irradiation**
Yen Tzu Ang¹, Satoru Iwamori^{1,2}, Masaki Hashida^{2,3}, Miyawaki Jun², Ishino Masahiko⁴, Hasegawa Noboru⁴, Dinh Thanhhuong⁴, Nishikino Masaharu⁴
1) Graduate School of Engineering, Course of Mechanical Engineering, Tokai University, 2) RIST, Tokai University, 3) ICR, Kyoto University, 4) QST

P-42 First-principles calculations for saturable absorption in highly excited silicon and its suppression at the surface

Shunsuke Yamada, Tomohito Otobe
QST

P-43 Developing lased-based operando photoemission electron microscopy (PEEM) to visualize electronic properties of semiconductor devices

Elizaveta Pyatenko¹, Kousuke Yoshikawa², Yoichi Yamada³, Yutaka Wakayama², Ryoma Hayakawa², Shunsuke Nozawa⁴, Keiki Fukumoto⁴
1)The Institute of Solid State Physics (ISSP), University of Tokyo, 2)National Institute of Materials Science (NIMS), 3)University of Tsukuba, 4)High Energy Accelerator Research Organization (KEK)

P-44 Synchrotron-based spin-resolved ARPES study: Topological proximity of bismuth on non-trivial surface band of Be(0001)

Sungsoo Hahn, Jacek Osiecki, Craig Polley, Mats Leandersson, Balasubramanian Thiagarajan
MAX IV laboratory