- Poster Session / Technical Demonstration -

P-01 Sympathetic cooling of Th^{3+} for a nuclear clock

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P-02 Fourier-Limited Spectroscopy via Longitudinal Excitation for a Zero-Dead-Time Optical Lattice Clock

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P-03 Recent Progress Toward Constructing a 2-μm Ho-Doped Thin-Disk Laser System

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P-04 Investigation of holographic structures in strong-field ionization by subcycle pulses

Rambabu Rajpoot, Eiji J. Takahashi
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P-05 Development of submicron focusing system for soft X-ray attosecond pulses and the demonstration

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P-06 Sub-shot-noise absorption spectroscopy enabled by entangled photon pairs

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P-07 Insight into the relaxation pathways of poly(3-hexylthiophene) in the excited-state through transient two-dimensional electronic spectroscopy

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P-08 Interferometric Two-dimensional Heterodyne-Detected Vibrational Sum-frequency Generation (2D HD-VSFG) Spectroscopy for Liquid Interface Study with Sub-100 fs Time Resolution

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P-09 Scattering-asymmetry control with ultrafast electron wave-packet shaping

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P-10 Fucci Technology: Past, Present, and Future of Visualizing Cell Cycle Dynamics

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P-11 A highly photostable and bright green fluorescent protein

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P-12 Construction of a new system to measure THz-induced photoluminescence in semiconducting single-walled carbon nanotubes

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P-13 Integration of single-defect carbon nanotube photon sources into waveguide circuits for quantum applications

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P-14 Hybrid Photonic integration for on-chip functionality

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P-15 Fluctuational electrodynamics in active media

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P-16 Surface-plasmon enhanced angular photonic spin Hall effect

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P-17 SHINE: Simple High-dynamic-range Image Normalization and Enhancement

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P-18 High-speed super-resolution imaging of membrane traffic in living cells

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P-19 A Framework for Analysis of Microstructure of Steel Using Large-Scale Serial Sectioning Images

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Shinya Morita[1,3], Kazuo Umemura[2], Hideo Yokota[1]
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P-20 Femtosecond laser farbicated Tesla structured glass microfluidics integarated with SERS substrate for gas sensing

Shi Bai, Kazunari Ozasa, Shota Kawabata, Koji Sugioka
Advanced Laser Processing Research Team, RIKEN RAP

P-21 GHz-Burst Femtosecond Laser Ablation of Silicon at 515 nm Wavelength

Ashkan Momeni Bidzard, Shota Kawabata, Kotaro Obata, Koji Sugioka
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P-22 Construction of Digital Twin of Laser Processing

Shuntaro Tani
Digital Twin for Light-Matter Interaction RIKEN ECL Research Team, RIKEN RAP

P-23 Development of high-peak-power THz-wave parametric source at 0.3 THz towards electron acceleration

Yuma Takida, Hiroaki Minamide
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P-24 Research on non-destructive THz-SS-OCT based on backward terahertz-wave parametric oscillator

Alexander De Los Reyes[1], Joselito Muldera[1], Yuma Takida[1], Keisuke Kajikawa[1], Deepika Yadav[1], Yuehong Xu[1], Manabu Sato[2], Chiko Otani[3], Hiroaki Minamide[1]
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P-25 Development of High-Sensitivity Omnidirectional THz-wave Detection toward THz-Chip Device

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P-26 Terahertz and Raman spectroscopy on oligosaccharides as models of starch spectra

Shunsaku Nakajima[1]
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P-27 Development of millimeter-wave integrated circuit technology for wide-field multi-color observations

Shinsuke Uno[1], Shuhei Inoue[2], Kazuki Watanabe[3,4], Taiki Sato[5], Tatsuya Takekoshi[6], Tai Oshima[3,4]
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P-28 Real-time analysis of THz pulses using a lithium niobate crystal

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P-29 Progress in high-power THz-QCL using thick (23 μm) GaAs/AlGaAs QC layers

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P-30 Novel quantum scheme in GaN/AlGaN THz-QCL for achieving high optical gain

Koki Yabe[1.2], Airu Takahashi[1.2], Akira Kaneko[1.2], Yuki Tsuda[3], Yosuke Suzuki[3], Keita Miyagawa[3], Koichi Akiyama[3], Sachie Fujikawa[2.1], Hiroyuki Yaguchi[2], Hideki Hirayama[1]
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P-31 Simultaneous two-photon photostimulation and Ca^{2+} imaging with a single-wavelength excitation

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P-32 Development of fundamental technologies for a compact and precise terahertz molecular clock

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P-33 From Classical to Quantum Light: Advances in Entangled Photon Generation and Perovskite Investigations

Henrik B. Lassen[1,2], Shinya Takahashi[2], Haruya Hirota[2], Toshiharu Teranishi[2], Yoshihiko Kanemitsu[2], Yasuhiro Yamada[3], Koichiro Tanaka[1,2]
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P-34 Advanced diode-pumped solid-state and fiber lasers: the fundamentals for high energy, high quality, and high-performance

Norihito Saito, Kentaro Miyata, Akihiro Tanabashi, Tatsuya Shinozaki, Norihiro Matsuyama, Takayo Ogawa, Satoshi Wada
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P-35 Development of Optical Systems for Space Applications

Takayo Ogawa, Tatsuya Shinozaki, Kentaro Nishigori, Noriko Kurose, Katsuhiko Tsuno, Hiroshi Kasuga, Hideaki Yamane, Tomohiro Tsukihana, Yutaka Nagata, Norihito Saito, Yutaka Yamagata, Satoshi Wada
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P-36 Pushing the Limits: Toward Real-Time Two-Photon Imaging of the Whole Mouse Brain

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P-37 Development of Agarose Gel Microcapsules for Spheroild Cell Cultures

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P-38 Current status of RIKEN Accelerator-driven compact Neutron Systems RANS & RANS-II

Takaoki Takanashi[1], Tomohiro Kobayashi[1], Yasuki Okuno[1], Maki Mizuta[1], Tomonori Fukuchi[1,2], Yasuo Wakabayashi[1,2], Sohei Imajo[1], Hiroki Kusano[1], Abdul Muneem[1], Shota Ikeda[1,3], MasatoTakamura[1,2], Takao Hashiguchi[1], Sho Otsuka[1], Yoshinori Nakayama[1], Yuji Kawamura[1], Yujiro Ikeda[1,2], Yoshie Otake[1]
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P-39 RANS-III Moving Toward Practical Application and RANS-μ Implemented in Society

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P-40 Development of nobel Neutron Measurement Technology for Ensuring Safety and Extending the Service Life of Social Infrastructure

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Yasuo Wakabayashi[1,2],Takaoki Takanashi[1], Yasuki Okuno[1], Teruaki Enoto[1,3]
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P-41 Label-free mid-infrared photothermal microscopy for single-cell thermal biology

Keiichiro Toda[1], Masaharu Takarada[2], Genki Ishigane[3], Hiroyuki Shimada[1], Venkata Ramaiah Badarla[1], Kohki Okabe[2], Takuro Ideguchi[1,3]
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P-42 Three-dimensional laser cooling of positronium using a chirped pulse train

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P-43 Ultrabroadband Near-Perfect Absorber from THz to DUV Based on Carbon-Coated Moth-Eye Structure: Design and Characterization

Yuki Hakamada[1], Maria Cojocari[2], Mizuho Matoba[1], Shotaro Kawano[1], Haruyuki Sakurai[1], Kuniaki Konishi[1], Daniil Pashnev[3], Surya Revanth Ayyagari[3], Vytautas Janonis[3], Andrzej Urbanowicz[3], Saulius Tumėnas[3], Justinas Jorudas[3], Irmantas Kašalynas[3], Janna Pennanen[2], Adigun Deborah Amos[2], Aleksandr Saushin[2], Georgy Fedorov[2], Yuri Svirko[2], Polina Kuzhir[2]
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P-44 Optical control of Multi-Valley States in tin sulfide monolayer

Arqum Hashmi[1], M. Umar Farooq[2], Mizuki Tani[3], Kazuhiro Yabana[4], Tomohito Otobe[3], Kenichi L. Ishikawa[1]
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P-45 Cryogenic Levitodynamics

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P-46 Visualization of Indivisual Dislocations in Synthetic Diamonds

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P-47 Exploration for Lunar Water Resource and Cislunar Science Using Cosmic Neutrons

Yuya Omata[1], Teruaki Enoto[1], Naoki Tsuji[1], Miwa Tsurumi[1],Kazuya Nakayama[1], Shunya Ito[1], Minato Otani[1], Hiroki Kusano[2], Yasuo Wakabayashi[2], TakaokiTakanashi[2], Tishie Otake[2], Hiroshi Nagaoka[3], Makoto Hareyama[4], MoMoTarO Project
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P-48 Ultra-Sensitive Confocal Microscopy with Superconducting Transition-Edge Sensor for Minimally Invasive Single-Cell Physiological Evaluation

Chigusa Okano[1], Chikaho Sano[2], Chihiro Horie[2], Yujiro Eto[3], Hiroaki Takaku[4], Kazuki Niwa[5], Daiji Fukuda[5], Nobuhiko Nomura[1,6], Yutaka Yawata[1,6]
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P-49 Perovskite Optoelectronics

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T-01 Examples of equipment development by Advanced Manufacturing Support Team

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T-02 Diamond Fly-Cutting of Cadmium Zinc Telluride for High-Dispersion Mid-Infrared Immersion Gratings

Takuya Hosobata[1], Yuan Li[2], Shunsuke Baba[3], Noboru Ebizuka[1], Yasuhiro Hirahara[2], Takao Nakagawa[3,4], Yutaka Yamagata[1]
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T-03 Aerial Display of Prism Array with Low Ghosting and High Throughput

Noboru Ebizuka, Takuya Hosobata, Yoshiyuki Takizawa, Masahiro Takeda, Yutaka Yamagata
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T-04 Development of Palm-Size High-Brightness Terahertz Wave Light Source - A Pathway to Various Non-Destructive Testing Targets in Practical Use

Yuma Takida, Hiroaki Minamide
Tera-Photonics Research Team, RIKEN RAP

T-05 Feature-aware 3D Mesh Decimation

Shin Yoshizawa and Hideo Yokota
Image Processing Research Team, RAP, RIKEN

T-06 We fabricate your bone

Yuki Tsujimura[1], Shintaro Oyama[1, 2], Masaki Watanabe[3], Toshiharu Kobayashi[1,4], Kenji Yamazawa[5, 6], Kazuo Umemura[4], Hideo Yokota[1]
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