

Preliminary Program of ALPS2019 (12 March 2019 updated)

The 8th Advanced Lasers and Photon Sources conference will be held on 22-25 April 2019.

In ALPS2019, a presentation number is defined as ALPS- $\langle\#1\rangle$ - $\langle\#2\rangle$.

The number $\langle\#1\rangle$ indicates the session order in the ALPS2019 conference.

The number $\langle\#2\rangle$ indicates the presentation order in the session.

Category	Session	Topics
A.	ALPS-12 [A1] ALPS-14 [A2]	Novel optical materials/structure and applications
B.	ALPS-1 [B1] ALPS-2 [B2]	High average power lasers and applications
C.	ALPS-9 [C1] ALPS-11 [C2] ALPS-13 [C3]	High peak power lasers, high pulse energy lasers and applications
D.	ALPS-15 [D1] ALPS-19 [D2] ALPS-20 [D3]	Novel solid state / fiber / diode lasers and applications
E.	ALPS-17 [E]	Short wavelength light sources and applications
F.	ALPS-16 [F1] ALPS-18 [F2]	Terahertz devices, nonlinear optics and applications
G.	ALPS-8 [G1] ALPS-10 [G2]	Novel optical devices, metamaterials, structure and applications
H.	ALPS-3 [H]	Optical devices and techniques for bio and medical applications
I.	ALPS-5 [I1] ALPS-7 [I2]	Optical frequency combs / Frequency stabilized lasers and applications
J.	JS-2 [ALPS-J]	Joint session ALPS+HEDS+XOPT JS-2-1 (ALPS), JS-2-2 (HEADS), and JS-2-3 (XOPT)
ACUIL.	ALPS-4 [ACUIL1] ALPS-6 [ACUIL2]	Special sessions co-organized with ACUIL Ultra-high intensity lasers and applications
P.	ALPS-P1 ALPS-P2	Poster sessions: P1(Category A,B,C, and E) and P2(Category D, F, G, H, and I)

Date	Time	Room 303	Room 511+512	
Mon. 22 Apr.	09:00-09:30	Opening Remarks		
	09:30-10:00	ALPS-1 [B1] High power lasers 1		
	10:00-10:30			
	10:30-11:00		Break	
	11:00-11:30	ALPS-2 [B2] High power lasers 2	ALPS-3 [H] Biomedical imaging	
	11:30-12:00			
	12:00-12:30	Lunch	Lunch	
	12:30-13:00			
	13:00-13:30			
	13:30-14:00	ALPS-4 [ACUIL1] Ultra-high intensity lasers	ALPS-5 [I1] Dual-comb	
	14:00-14:30			
	14:30-15:00			
	15:00-15:30			Break
	15:30-16:00	Break (15:10-15:40)	ALPS-7[I2] Comb applications	
	16:00-16:30	ALPS-6 [ACUIL2] Applications of ultra-high intensity lasers		
	16:30-17:00			
	17:00-17:30			
17:30-18:00				

Date	Time	Room 303	Room 511+512	
Tue. 23 Apr.	09:00-12:00	OPIC Plenary Session Room 501+502		
	12:00-12:30	Lunch		
	12:30-13:00			
	13:00-13:30			
	13:30-14:00	JS-2 [ALPS-J] ALPS-HEDS-XOPT joint session	ALPS-8 [G1] Modulation, wavelength conversion and measurement with linear and nonlinear processes	
	14:00-14:30			
	14:30-15:00			
	15:00-15:30	Break	Break	
	15:30-16:00	ALPS-9 [C1] Ultra-high intensity lasers and technology	ALPS-10 [G2] Metamaterial, metasurface and new materials for laser applications	
	16:00-16:30			
16:30-17:00				

Date	Time	Room 303	Room 511+512
Wed. 24 Apr.	09:00-09:30		
	09:30-10:00	ALPS-11 [C2] Ultra-short pulse high intensity lasers and technology	ALPS-12 [A1] Optical materials / structure and applications 1
	10:00-10:30		
	10:30-11:00	Break	Break
	11:00-11:30	ALPS-13 [C3] Measurements and applications of high intensity lasers	ALPS-14 [A2] Optical materials / structure and applications 2
	11:30-12:00		
	12:00-12:30	Lunch	
	12:30-13:00	Lunch	
	13:00-13:30		
	13:30-14:00	ALPS-P1 Poster session 1 Exhibition Hall A	
	14:00-14:30		
	14:30-15:00	Break	
	15:00-15:30		
	15:30-16:00	ALPS-P2 Poster session 2 Exhibition Hall A	
	16:00-16:30		
16:30-17:00			

Date	Time	Room 303	Room 511+512
Thu. 25 Apr.	09:00-09:30		
	09:30-10:00	ALPS-15 [D1] Novel material and wavelength lasers	ALPS-16 [F1] Terahertz applications
	10:00-10:30		
	10:30-11:00	Break	
	11:00-11:30	ALPS-17 [E] Ultrashort light source and application	ALPS-18 [F2] Terahertz applications and nonlinear optics
	11:30-12:00		
	12:00-12:30	Lunch	
	12:30-13:00	Lunch	
	13:00-13:30		
	13:30-14:00	ALPS-19 [D2] Ultrafast and advanced lasers	
	14:00-14:30		
	14:30-15:00		
	15:00-15:30	Break	
	15:30-16:00	ALPS-20 [D3] Fiber lasers	
	16:00-16:30		
16:30-16:40	Award ceremony		
16:40-16:45	Closing Remarks		

Monday, 22nd April 2019, Room 303

Opening remarks

9:00 - 9:15 Room 303

Hitoki Yoneda

Institute for Laser Science, The University of Electro-Communications (UEC)

ALPS-1 [B1] High power lasers 1

9:15 - 10:30 Room 303

Chair: Ryo Yasuhara

National Institute for Fusion Science

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| ALPS-1-01
<i>invited</i>
9:15 | High-average-power DUV picosecond pulse generation based on a gain-switched LD and hybrid MOPA
Kenta Kohno
<i>Spectronix</i> |
| ALPS-1-02
9:45 | 1-J, 300-Hz Laser System by Using High Peak Power Laser-Diode Pumped Nd:YAG Amplifiers for Industrial Applications
Takaaki Morita
<i>HAMAMATSU PHOTONICS K.K.</i> |
| ALPS-1-03
10:00 | Purification of the liquid media of stimulated Brillouin scattering phase conjugate mirrors for high average laser system
Seongwoo Cha
<i>KAIST</i> |
| ALPS-1-04
10:15 | Kerr-Lens Mode-Locked Yb:LuAG Ceramic Thin-Disk Laser
Shotaro Kitajima
<i>University of Electro-Communications</i> |

-----Break (10:30 - 10:45) -----

Monday, 22nd April 2019, Room 303

ALPS-2 [B2] High power lasers 2

10:45 - 12:00 Room 303

Chair: Junji Kawanaka

Institute of Laser Engineering, Osaka University

ALPS-2-01 Thermal-Lens-Free Top-Capped HCAM Laser

10:30

Ken-ichi Ueda

University of Electro-Communications

ALPS-2-02 Experimental and Theoretical Studies of the Diode Pumped Alkali Lasers

10:45

Boris Barmashenko

Ben-Gurion University of the Negev

ALPS-2-03 Diode pumped rubidium laser based on etalon effects of alkali cell windows

11:15

Zhiyong Li

Institute of Electronics, Chinese Academy of Sciences

ALPS-2-04 Rare earth doped Aluminium oxide/nitride ceramics for light emitting application

invited

11:30

Yasuhiro Kodaera

UC San Diego

-----Lunch (12:00 - 13:00) -----

Monday, 22nd April 2019, Room 511+512

ALPS-3 [H] Biomedical imaging

11:00 - 12:30 Room 511+512

Chair: Masayuki Suzuki

Aichi Medical University

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| ALPS-3-01
<i>invited</i>
11:00 | AI cell sorting - where photonics meets microfluidics and AI
Keisuke Goda
<i>University of Tokyo</i> |
| ALPS-3-02
<i>invited</i>
11:30 | In-vivo tomographic visualization of intracochlear vibration using supercontinuum multifrequency-swept optical coherence microscope
Samuel Choi
<i>Niigata university</i> |
| ALPS-3-03
12:00 | Fluorescence imaging with $Y_2O_3:Yb$ nanoparticles in the second near-infrared window
Yoshiaki Akino
<i>The university of Nagoya</i> |
| ALPS-3-04
12:15 | Establishment of a novel measurement technique for pedicle screw stability -LASER resonance frequency analysis-
Daisuke Nakashima
<i>Keio University</i> |

-----Lunch (12:30 - 13:30) -----

Monday, 22nd April 2019, Room 303

ALPS-4 [ACUIL1] Ultra-high intensity lasers

13:00 - 15:10 Room 303

Chair: Chang Hee Nam

Institute for Basic Science

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| ALPS-4-01
13:00 | Opening address
Chang Hee Nam
<i>Institute for Basic Science</i> |
| ALPS-4-02
13:05 | Recent Progress on the ultra-intense and ultra-fast laser facility at SIOM from SULF to SEL
Yuxin Leng
<i>State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences</i> |
| ALPS-4-03
13:30 | Ultra-intense sub-20 fs laser for nonlinear Compton scattering
Seong Ku Lee
<i>IBS-GIST</i> |
| ALPS-4-04
13:55 | Recent Performance and Progress on the J-KAREN-P High Intensity Laser Facility
Hiromitsu Kiriya
<i>National Institutes for Quantum and Radiological Science and Technology</i> |
| ALPS-4-05
14:20 | Innovative Power Laser System Developed at Osaka University
Junji Kawanaka
<i>Osaka University</i> |
| ALPS-4-06
14:45 | A multi-function high-intensity laser driver for intense radiation sources - Xingguang-III facility
Qihua Zhu
<i>Laser Fusion Research Center, China Academy of Engineering Physics</i> |

-----Break (15:10 - 15:40) -----

Monday, 22nd April 2019, Room 511+512

ALPS-5 [I1] Dual-comb

13:30 - 15:00 Room 511+512

Chair: Mitsuru Musya

Institute for Laser Science, University of Electro-Communications (UEC)

- ALPS-5-01** **Advances in Optical Time Transfer using Frequency Combs**
invited Nathan Newbury
13:30 *National Institute of Standards and Technology*
- ALPS-5-02** **Dual-comb Based Angle Measurement Using a Grating and a Corner Cube Combined Sensor**
14:00 Guanhao Wu
 Tsinghua University
- ALPS-5-03** **Rapid Characterization of Orbital Angular Momentum Spectrum of Arbitrary Optical Vortex using Dual-comb Spectroscopy**
14:15 Akifumi Asahara
 The University of Electro-Communications
- ALPS-5-04** **Bidirectional dual-comb fiber laser with controllability of carrier-envelope-offset frequency**
14:30 Yoshiaki Nakajima
 The University of Electro-Communications
- ALPS-5-05** **Mutually coherent all-polarization-maintained dual-comb fiber laser with nonlinear amplifying loop mirror**
14:45 Yoshiaki Nakajima
 The University of Electro-Communications

-----Break (15:00 - 15:30) -----

Monday, 22nd April 2019, Room 303

ALPS-6 [ACUIL2] Applications of ultra-high intensity lasers

15:40 - 17:45 Room 303

Chair: Hiromitsu Kiriya

National Institutes for Quantum and Radiological Science and Technology

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| ALPS-6-01
15:40 | Collisionless Shock Acceleration in Near Critical Density Relativistic Plasma
Chang Hee Nam
<i>Institute for Basic Science</i> |
| ALPS-6-02
16:05 | Strong terahertz pulses generated from relativistic laser-produced plasmas
Yutong Li
<i>Institute of Physics, Chinese Academy of Sciences</i> |
| ALPS-6-03
16:30 | Experimental Demonstration of a Laser Proton Accelerator with Image-Relaying Beam Transport
Chen Lin
<i>Peking University</i> |
| ALPS-6-04
16:55 | Dynamic structure enable relativistic electron plasma generation in microdroplet plasma
Krishnamurthy Manchikanti
<i>Tata Institute of Fundamental Research</i> |
| ALPS-6-05
17:20 | 500 TW Ti:sapphire laser at ETRI
Dong Hoon Song
<i>Electronics and Telecommunications Research Institute</i> |

Monday, 22nd April 2019, Room 511+512

ALPS-7 [I2] Comb applications

15:30 - 17:00 Room 511+512

Chair: Nathan Newbury

National Institute of Standards and Technology

ALPS-7-01 Miniature chip-based frequency combs: physics and applications

invited

Kerry Vahala

California Institute of Technology

15:30

ALPS-7-02 Low timing jitter femtosecond fiber lasers and applications

invited

Minglie Hu

Tianjin University

16:00

ALPS-7-03 Timing Jitter Suppression through Relative Intensity Noise Stabilization in High-repetition-rate Mode-locked Fiber Lasers

16:30

Yan Wang

Peking University,

ALPS-7-04 One-shot three-dimensional imaging using a stabilized all-optical Hilbert transform with optical frequency comb

16:45

Takashi Kato

The University of Electro-Communications

Tuesday, 23rd April 2019, Room 303

JS-2 [ALPS-J] ALPS-HEDS-XOPT joint session

13:30 - 15:00 Room 303

Chair: Hitoki Yoneda

Institute for Laser Science, University of Electro-Communications (UEC)

Akifumi Yogo

Institute of Laser Engineering, Osaka University

Makina Yabashi

RIKEN SPring-8 Center

JS-2[ALPS-J]-01 **Recent advances on the BELLA PW laser for collaborative research in laser plasma science**

invited

13:30

Csaba Toth

Lawrence Berkeley National Laboratory

JS-2[ALPS-J]-02 **Status and Prospect of high energy density science with high power lasers at Osaka University**

invited

14:00

Ryosuke Kodama

Institute of Laser Engineering, Osaka University

JS-2[ALPS-J]-03 **Status of the EBS Programme Implementation at the ESRF**

invited

14:30

Francesco Sette

European Synchrotron Radiation Facility

-----Break (15:00 - 15:30) -----

Tuesday, 23rd April 2019, Room 511+512

ALPS-8 [G1] Modulation, wavelength conversion and measurement with linear and nonlinear processes

13:30 - 15:00 Room 511+512

Chair: Takasumi Tanabe
Keio University

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| ALPS-8-01
<i>invited</i>
13:30 | Linear Frequency Conversion in Rapidly Time-variant Metasurfaces
Bumki Min
<i>KAIST</i> |
| ALPS-8-02
<i>invited</i>
14:00 | Efficient SHG in Periodically Poled Lithium Niobate Microresonators
Fang Bo
<i>Nankai University</i> |
| ALPS-8-03
14:30 | A study on the modulation of vector optical field with near-field conformal
Xibo Sun
<i>Research Center of Laser Fusion, China Academy of Engineering Physics</i> |
| ALPS-8-04
14:45 | Hong-Ou-Mandel Interference between Photons Encoded with Orthogonal Spectra
Aruto Hosaka
<i>Keio University</i> |

-----Break (15:00 - 15:30) -----

Tuesday, 23rd April 2019, Room 303

ALPS-9 [C1] Ultra-high intensity lasers and technology

15:15 - 17:00 Room 303

Chair: Hiromitsu Kiriya

National Institutes for Quantum and Radiological Science and Technology

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| ALPS-9-01
<i>invited</i>
15:15 | Recent status and progress of SULF 10 PW Laser
Xiaoyan Liang
<i>Shanghai Institute of Optics and Fine Mechanics</i> |
| ALPS-9-02
15:45 | Overview of a multi-petawatt OPCPA laser facility
Kainan Zhou
<i>Laser Fusion Research Center, China Academy of Engineering Physics</i> |
| ALPS-9-03
16:00 | A 100-J class laser processing system with variable parameters for the database/platform in the TACMI consortium
Takashi Sekine
<i>Hamamatsu Photonics K.K.</i> |
| ALPS-9-04
16:15 | Possible method for single-optical-cycle 100 petawatt lasers
Zhaoyang Li
<i>Institute of Laser Engineering, Osaka University</i> |
| ALPS-9-05
16:30 | Wavefront optimization of Meter-size Gratings for 10PW-class lasers
Arnaud Cotel
<i>HORIBA Scientific</i> |
| ALPS-9-06
16:45 | 600 mm deformable mirrors for multy PW lasers
Alexis Kudryashov
<i>Institute of Geosphere Dynamics RAS</i> |

Tuesday, 23rd April 2019, Room 511+512

ALPS-10 [G2] Metamaterial, metasurface and new materials for laser applications

15:30 - 16:30 Room 511+512

Chair: Tomohiro Amemiya

Tokyo Institute of Technology

ALPS-10-01 Optical Nanoantennas for Plasmon Enhanced Infrared Spectroscopy

invited

Kai Chen

Jinan University

15:30

ALPS-10-02 Correlation between Optical Absorption and Device Performance of Metamaterial Perfect Absorber Solar Cells

16:00

Tomohisa Isegawa

Tokyo University of Agriculture and Technology

ALPS-10-03 Unidirectional launching and elongating propagation of Airy surface plasmon polaritons by a metasurface coupling grating

16:15

Feng Lin

Peking University

Wednesday, 24th April 2019, Room 303

ALPS-11 [C2] Ultra-short pulse high intensity lasers and technology

9:15 - 10:30 Room 303

Chair: Takashi Sekine

Hamamatsu Photonics K.K.

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| ALPS-11-01
<i>invited</i>
9:15 | Construction of multi-terawatt ALLEGRA laser system operating at 1 kHz repetition rate at ELI-Beamlines
Pavel Bakule
<i>ELI-Beamlines</i> |
| ALPS-11-02
9:45 | Carbon Nanotube Mode-Locked Cr:ZnS Laser with 400 nm Tuning Range
Daiki Okazaki
<i>Institute of Industrial Science, The University of Tokyo</i> |
| ALPS-11-03
10:00 | Development of ultra-low loss and high efficient cavity switch with UV writing ozone mixed gas switch
Yurina Michine
<i>University of Electro-Communications</i> |
| ALPS-11-04
10:15 | All-ytterbium frontend for high-energy field synthesis and molecular fieldoscopy
Hanieh Fattahi
<i>Max Planck Institute of Quantum optics</i> |

-----Break (10:30 - 10:45) -----

Wednesday, 24th April 2019, Room 511+512

ALPS-12 [A1] Optical materials / structure and applications 1

9:00 - 10:30 Room 511+512

Chair: Masashi Yoshimura

Osaka University

ALPS-12-01 **Quasi-phase-matched GaAs stacks for mid-infrared wavelength conversion fabricated with the room-temperature bonding**

invited

9:00

Ichiro Shoji
Chuo University

ALPS-12-02 **Terbium Aluminium Garnet Ceramics for High-Average-Power Laser Isolators**

9:30

Shigeki Tokita
Osaka University

ALPS-12-03 **Temperature dependence of laser-induced damage by multiple pulses irradiation**

9:45

Haruka Ogawa
Osaka University

ALPS-12-04 **Group 10 based transition metal dichalcogenides 2D materials used for laser photonic applications**

10:00

Yuen Hong Tsang
The Hong Kong Polytechnic University

ALPS-12-05 **Evaluation of Sensing Structure of Laser Microphone using Self-coupling Effect of Laser Diode for Spherical Sound Wave**

10:15

Daisuke Mizushima
Aichi Institute of Technology

-----Break (10:30 - 11:00) -----

Wednesday, 24th April 2019, Room 303

ALPS-13 [C3] Measurements and applications of high intensity lasers

10:45 - 12:00 Room 303

Chair: Pavel Bakule

Institute of Physics of the Czech Academy of Sciences, ELI Beamlines

- ALPS-13-01** **3D spatiotemporal distortion and detection of femtosecond petawatt lasers**
10:45 Zhaoyang Li
Institute of Laser Engineering, Osaka University
- ALPS-13-02** **Time-resolved soft X-ray absorption spectroscopy of nitric oxide near N K-edge at 400 eV**
11:00 Nariyuki Saito
The Institute for Solid State Physics, the University of Tokyo
- ALPS-13-03** **Temporal Change of the Optical Properties of Titanium Surface Irradiated by Femtosecond-Laser Pulses**
11:15 Yuki Furukawa
Institute for Chemical Research, Kyoto University
- ALPS-13-04** **Attosecond Soft-X-Ray Spectroscopy of the Opto-Electronic Response of a Transition Metal Dichalcogenide Material**
11:30 Jens Biegert
ICFO - The Institute of Photonic Sciences
- ALPS-13-05** **Time-resolved imaging of photoresist stripping dynamics induced by laser irradiation**
11:45 Naoki Nishioka
Osaka Institute of Technology

-----Lunch (12:00 - 13:15) -----

Wednesday, 24th April 2019, Room 511+512

ALPS-14 [A2] Optical materials / structure and applications 2

11:00 - 12:00 Room 511+512

Chair: Takunori Taira

RIKEN SPring-8 Center

ALPS-14-01 PPLN-based compact modelocked laser

invited

Ursula Keller

ETH Zurich

11:00

ALPS-14-02 High performance lead-free electro-optic and magneto-optic polycrystalline materials

11:30

Javier Garay

UC San Diego

ALPS-14-03 Super-flat white-light generation in multi-thin plates

11:45

Shaobo Fang

Institute of Physics, Chinese Academy of Sciences

-----Lunch (12:00 - 13:15) -----

Wednesday, 24th April 2019, Exhibition Hall A

ALPS-P1 Poster Session 1

13:15 - 14:45 Exhibition Hall A

- ALPS-P1-01** **Development of transparent Er:Y₂O₃ ceramics fabricated by spark plasma sintering**
Mayu Imai
Kitami Institute of Technology
- ALPS-P1-02** **Development of high-quality CsLiB₆O₁₀ crystal for high-power DUV application**
Masashi Yoshimura
Institute of Laser Engineering, Osaka University
- ALPS-P1-03** **Crystal growth and optical properties of SrB₄O₇ crystal for DUV laser application**
Tsuyoshi Sugita
NIKON Corporation
- ALPS-P1-04** **Development of Super Low Thermal Expansion Cast alloys for precision equipment**
Nobuyuki Oyama
Nippon Chuzo Corporation
- ALPS-P1-05** **An approach to make a variable wavelength laser by GaN/InGaN-MQW with high-reflection DBR and external mirror**
Yen-Chun Chen
National Chiao Tung University
- ALPS-P1-06** **Four-channel Surface Slotted Laser Array with 100 GHz Spacing Hetero-integrated with CMOS-compatible Silicon Waveguides for Optical Interconnects**
Mingjin Wang
Institute of Semiconductors, CAS
- ALPS-P1-07** **3.6 kW Higher-Order Mode Fibre Amplifier**
Kai Han
College of Advanced Interdisciplinary Studies, National University of Defense Technology
- ALPS-P1-08** **Development of kW-class Yb:YAG TRAM CW Laser Oscillator with Direct Jet impingement Cooling**
Haik Chosrowjan
Institute for Laser Technology

ALPS-P1-09	Characteristics of multi-pass amplification by use of Yb:YAG active mirror Ryo Kageyama <i>Utsunomiya University</i>
ALPS-P1-10	Regenerative amplification of visible picosecond laser pulses with Praseodymium-doped gain media Shogo Fujita <i>Keio University</i>
ALPS-P1-11	High gain femtosecond CPA laser system based on Yb:YAG single crystal fiber boosters with different geometries Elena Sall <i>Korea Electrotechnology Research Institute</i>
ALPS-P1-12	Spectral behavior of amplified near-infrared supercontinuum beam in ytterbium-doped double-clad passive fiber Misaki Shoji <i>Utsunomiya University</i>
ALPS-P1-13	Generation of single-cycle shortwave infrared pulses in BBO-based cascaded optical parametric amplifier Yu-Chieh Lin <i>Attosecond Science Research Team, RIKEN</i>
ALPS-P1-14	Parametric Amplification of Mid-Infrared Optical Pulses with Monolithic Carrier-Envelope Phase Stabilization by Multi-Plate Pulse Compression Nobuhisa Ishii <i>The Institute for Solid State Physics, The University of Tokyo</i>
ALPS-P1-15	Characteristics of longitudinally excited CO₂ laser operating at a high repetition rate Kohei Sakamoto <i>University of Yamanashi</i>
ALPS-P1-16	Key technologies for the high power cryogenically-cooled active-mirror amplifier Junpei Ogino <i>Institute of Laser Engineering, Osaka University</i>
ALPS-P1-17	Recovery dynamics of semiconductor saturable absorber for ultra-high intensity lasers Koichi Ogura <i>National Institutes for Quantum and Radiological Science and Technology</i>
ALPS-P1-18	Development of a diode-pumped stable laser for low-jitter OPCPA pumping Yasuhiro Miyasaka <i>National Institutes for Quantum and Radiological Science and Technology</i>

ALPS-P1-19	Effect of annealing on nonlinear optical properties of 70% deuterated DKDP crystal at 355 nm Dongting Cai <i>State Key Laboratory of Crystal Materials, Shandong University</i>
ALPS-P1-20	Large Diameter TGG Ceramic Faraday Rotator for kW Class Average Power Laser Hidetsugu Yoshida <i>Institute of Laser Engineering, Osaka University</i>
ALPS-P1-21	Fabrication of GelMA Hydrogel Micro/Nano Structures Using Femtosecond Laser Two-photon Polymerization Ziyuan Shi <i>Institute of Laser Engineering, Beijing University of Technology</i>
ALPS-P1-22	Single-shot 2-D burst imaging in sub-nanosecond region with spectrally sweeping ultrafast laser pulses Hirofumi Nemoto <i>Keio University</i>
ALPS-P1-23	Electron temperature of high-pressure argon plasma induced by femtosecond laser Yuki Mori <i>Aichi Institute of Technology</i>
ALPS-P1-24	Short Pulse Light Source at 193nm for Hybrid ArF Laser Yuuki Tamaru <i>Gigaphoton Inc.</i>
ALPS-P1-25	Laser wavelength dependence of the soft x-ray spectra in a bismuth plasma Hiromu Kawasaki <i>Utsunomiya University</i>

Wednesday, 24th April 2019, Exhibition Hall A

ALPS-P2 Poster Session 2

15:30 - 17:00 Exhibition Hall A

- ALPS-P2-01** **Spectroscopic properties of heavily Er³⁺doped silica glass**
Yu Yamasaki
Ushio Ic.
- ALPS-P2-02** **Measurement of small signal gain in Pr-doped waterproof fluoride glass fiber**
Takumi Ikeda
Chiba Institute of Technology
- ALPS-P2-03** **Dispersion-managed Tm-doped ultrashort pulse fiber laser using SWNT at 2 μm wavelength region**
Kenta Watanabe
Nagoya University
- ALPS-P2-04** **Dispersion management and analysis of all PM Er-doped passively mode-locked fiber laser with nonlinear amplifying loop mirror**
Hayato Suga
Nagoya University
- ALPS-P2-05** **Nonlinear Polarization rotation dispersion managed soliton mode-locked laser using normal dispersion Tm silica fiber**
Takumi Sato
Institute for Laser Science, University of Electro-Communications
- ALPS-P2-06** **Supercontinuum Generation Directly from a Random Fiber Laser**
Rui Song
National University of Defense Technology
- ALPS-P2-07** **Experimental Research of a 2μm Pulsed Laser Based on a Supercontinuum Source**
Weiqiang Yang
National University of Defense Technology
- ALPS-P2-08** **Development of a novel Herriott-multipass cavity laser oscillator with SESAM located at the compensated position for q-parameter preservation**
Seong-Hoon Kwon
Gwangju Institute of Science and Technology
- ALPS-P2-09** **Amplification Property of Ce/Cr/Nd:YAG Ceramic Active-Mirror Laser Using White-light Pump Source**
Taku Saiki
Kansai University

ALPS-P2-10	Accuracy for Diffuse Reflection Object of Velocity and Distance Simultaneous Measurement Sensor by Self-Coupling Signal Masanari Yamada <i>Aichi Institute of Technology</i>
ALPS-P2-11	Signal processing using moving average method of self-coupling laser terminal voltage distance sensor Tatsuya Ohba <i>Aichi Institute of Technology</i>
ALPS-P2-12	Method Verification of Intensity Decision of Laser Microphone Using Deep Learning Ryota Mori <i>Aichi Institute of Technology</i>
ALPS-P2-13	Design concentration lens and simulate solar-pumped solid-state lasers by using a DPSS laser Bo-Wei Huang <i>National Chiao Tung University</i>
ALPS-P2-14	Development of intense terahertz source aiming at highly time resolved measurement of terahertz induced periodic surface structure formation Chikai Hosokawa <i>ICR Kyoto University</i>
ALPS-P2-15	Single shot 2D burst ultrafast imaging in terahertz region utilizing SF-STAMP Kazuki Takasawa <i>Keio University</i>
ALPS-P2-16	The modulation of femtosecond SPP wavepackets induced by MIM nano cavities Naoki Ichiji <i>The University of Tsukuba</i>
ALPS-P2-17	Fabrication of nano graphene wire employing ultrafast nanofocused surface plasmon pulses Takumi Matsuda <i>Keio University</i>
ALPS-P2-18	Improvement of image quality of rigid-endoscope OCT system using two-dimensional KTN optical scanner Masato Ohmi <i>Osaka University</i>

- ALPS-P2-19** **Wavelength Modulation Spectroscopy of Linalool Using Broadband 3 μ m Difference Frequency Laser**
Shota Kato
Tokai University
- ALPS-P2-20** **Frequency Comb Generation from a Bismuth-Based Mode-Locked Fiber Laser**
Yutaka Fukuchi
Tokyo University of Science
- ALPS-P2-21** **Dual-comb Spectroscopy Technique for Magneto-optic Effect Measurements**
Takuto Adachi
The University of Electro-Communications
- ALPS-P2-22** **Development of Dual-Comb Faraday Effect Measurement Equipment**
Yusuke Odagiri
NEOARK Corporation
- ALPS-P2-23** **Improvement of Q factor and dispersion of crystalline microresonator towards soliton comb generation**
Shuya Tanaka
Keio University
- ALPS-P2-24** **Tailored generation of a highly-discrete Raman type comb**
Weiyong Liu
The University of Electro-Communications
- ALPS-P2-25** **Development of broadband bidirectional dual-comb fiber laser with narrow relative linewidth**
Yuya Hata
The University of Electro-Communications
- ALPS-P2-26** **High-accuracy shape measurement technique using two-color interferometry with optical frequency combs with air fluctuation compensation**
Yoshihisa Ikisawa
The University of Electro-Communications
- ALPS-P2-27** **Technique of Digital Control of Laser Oscillation Frequencies by means of Difference Frequency Stabilization of a Microchip Laser**
Iyon Titok Sugiarto
Kanazawa University
- ALPS-P2-28** **Second harmonic generation of ultraviolet laser based on a laser diode array with an external cavity of a volume Bragg grating**
Zhiyong Li
Institute of Electronics, Chinese Academy of Sciences

Thursday, 25th April 2019, Room 303

ALPS-15 [D1] Novel material and wavelength lasers

9:00 - 10:30 Room 303

Chair: Dingyuan Tang

Nanyang Technological University

ALPS-15-01 Diamond Raman Lasers

invited

9:00

Richard Mildren
Macquarie University

ALPS-15-02 Characteristic of visible lasing with a Pr³⁺-doped oxide crystal YAlO₃

9:30

Shogo Fujita
Keio University

ALPS-15-03 Efficient continuous-wave operation of Er:YAP single crystal laser at 2.92 μm

9:45

Hiroki Kawase
SOKENDAI

ALPS-15-04 Fabrication of Er-doped Microresonator for On-Chip Mode-locked Laser with CNT as Saturable Absorber

10:00

Riku Imamura
Department of Electronics and Electrical Engineering, Keio University

ALPS-15-05 High Quality-Factor Kerr-lens Mode-locked Tm:Sc₂O₃ Laser with anomalous spectral broadening

10:15

Anna Suzuki
Institute for Laser Science, The University of Electro-Communications

-----Break (10:30 - 11:00) -----

Thursday, 25th April 2019, Room 511+512

ALPS-16 [F1] Terahertz applications

9:00 - 10:30 Room 511+512

Chair: Takashi Notake

RIKEN SPring-8 Center

- ALPS-16-01** **Terahertz manipulation of magnetization and terahertz devices based on the magnetic materials**
invited
9:00 Makoto Nakajima
Osaka University
- ALPS-16-02** **Sub-THz spectroscopy using laser chaos**
9:30 Fumiyoshi Kuwashima
Fukui University of Technology
- ALPS-16-03** **Index-Tunable Terahertz Metamaterials with Lowered Loss Based on Double-Layered Asymmetric Closed-Ring Resonator Arrays**
9:45 Tatsunosuke Matsui
Mie University
- ALPS-16-04** **Terahertz Semiconductor Quantum Devices and Their Applications**
10:00 Juncheng Cao
Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences
- ALPS-16-05** **The observation of spin reorientation phase transition in $\text{Sm}_{1-x}\text{Er}_x\text{FeO}_3$ by terahertz time domain spectroscopy**
10:15 Yohei Koike
Institute of Laser Engineering, Osaka University

-----Break (10:30 - 11:00) -----

Thursday, 25th April 2019, Room 303

ALPS-17 [E] Ultrashort light source and application

11:00 – 11:45 Room 303

Chair: Hiroki Mashiko

NTT BRL

ALPS-17-01 Femtosecond-laser-driven micro undulator for THz emission

invited

11:00

Ye Tian

Shanghai Institute of Optics and Fine Mechanics

ALPS-17-02 Actively stabilized extreme ultraviolet attosecond interferometer

11:30

Koji Asaga

Tokyo Denki University

-----Lunch (11:45 - 13:15) -----

Thursday, 25th April 2019, Room 511+512

ALPS-18 [F2] Terahertz applications and nonlinear optics

11:00 - 12:00 Room 511+512

Chair: Makoto Nakajima

Osaka University

ALPS-18-01 Large Phase Modulation of THz Wave Based on Dynamic Mode Coupling

invited

Metasurfaces

11:00

Yaxin Zhang

University of Electronic Science and Technology of China

ALPS-18-02 Observation of Nonlinear Propagation Effects in High Harmonic

11:30 Generation from Bulk Gallium Arsenide

Peiyu Xia

Institute for Solid State Physics, The University of Tokyo

-----Lunch (11:45 - 13:15) -----

Thursday, 25th April 2019, Room 303

ALPS-19 [D2] Ultrafast and advanced lasers

13:15 - 15:00 Room 303

Chair: Richard Mildren

Macquarie University

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|---|--|
| ALPS-19-01
<i>invited</i>
13:15 | Physics and applications of monolithic mode-locked lasers with ultra-low intrinsic noise
Thomas R Schibli
<i>University of Colorado</i> |
| ALPS-19-02
<i>invited</i>
13:45 | Oxide semiconductors for nonlinear optics and ultrafast pulse lasers
Jianrong Qiu
<i>Zhejiang University</i> |
| ALPS-19-03
14:15 | 360 fs pulses with gigawatt peak power from a Tm:YAP based ring cavity regenerative amplifier
Seyed Ali Rezvani
<i>Institute for Molecular Science</i> |
| ALPS-19-04
14:30 | Dual Wavelength and Widely Tuneable Operation of Nd,Gd:SrF₂ Laser
Vaclav Kubecek
<i>Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering</i> |
| ALPS-19-05
14:45 | Neural Network Controlled Coherent Beam Combining
Henrik Tuennermann
<i>Institute for Laser Science, University of Electro-Communications</i> |

-----Break (15:00 - 15:30) -----

Thursday, 25th April 2019, Room 303

ALPS-20 [D3] Fiber lasers

15:30 - 16:30 Room 303

Chair: Thomas R Schibli

University of Colorado

ALPS-20-01 Dark-bright vector soliton emission fiber lasers

invited

15:30

Dingyuan Tang

Nanyang Technological University

ALPS-20-02 Spectral dynamics of build-up femtosecond pulse in mode-locked Yb fibre laser with time stretch spectroscopy

16:00

Masayuki Suzuki

Aich Medical University

ALPS-20-03 Liner Polarization High Peak Power Pulse Amplification By Using A Polarization Maintaining Very Large Mode Area Er-Doped Fiber Amplifier

16:15

Hiroshi Hashimoto

Laboratories for Fusion Core Technologies, Furukawa Electric Co. Ltd.

Award ceremony

16:30 - 16:40 Room 303

Junji Kawanaka

Institute of Laser Engineering, Osaka University

Closing remarks

16:40 - 16:45 Room 303

Fumihiko Kannari

Keio University