Preliminary Program of ALPS2019 (4 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-<#1>-<#2>.
The number <#1> indicates the session order in the ALPS2019 conference.
The number <#2> 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	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	
	12:30-13:00		Lunch
	13:00-13:30	ALPS-4 [ACUIL1] Ultra-high intensity lasers	
	13:30-14:00		ALPS-5 [I1] Dual-comb
	14:00-14:30		
	14:30-15:00		
	15:00-15:30	Break (15:10-15:40)	Break
	15:30-16:00	ALPS-6 [ACUIL2] Applications of ultra-high intensity lasers	ALPS-7[I2] Comb applications
	16:00-16:30		
	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		ALPS-12 [A1] Optical materials / structure and applications 1
	09:30-10:00	ALPS-11 [C2] Ultra-short pulse high intensity lasers and technology	
	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		
	13:00-13:30		
	13:30-14:00	ALPS-P1 Poster session 1 Exhibition Hall A	
	14:00-14:30		
	14:30-15:00		
	15:00-15:30	Break	
	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	ALPS-15 [D1] Novel material and wavelength lasers	ALPS-16 [F1] Terahertz applications
	09:30-10:00		
	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		
	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

ALPS-1-01 *invited* **9:15**
High-average-power DUV picosecond pulse generation based on a gain-switched LD and hybrid MOPA
Kenta Kohno
Spectronix

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
HAMAMATSU PHOTONICS K.K.

ALPS-1-03 10:00
Purification of the liquid media of stimulated Brillouin scattering phase conjugate mirrors for high average laser system
Seongwoo Cha
KAIST

ALPS-1-04 10:15
Kerr-Lens Mode-Locked Yb:LuAG Ceramic Thin-Disk Laser
Shotaro Kitajima
University of Electro-Communications

-----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 Engeering, Osaka University

ALPS-2-01
10:30
Thermal-Lens-Free Top-Capped HCAM Laser
Ken-ichi Ueda
University of Electro-Communications

ALPS-2-02
10:45
Experimental and Theoretical Studies of the Diode Pumped Alkali Lasers
Boris Barmashenko
Ben-Gurion University of the Negev

ALPS-2-03
11:15
Diode pumped rubidium laser based on etalon effects of alkali cell windows
Zhiyong Li
Institute of Electronics, Chinese Academy of Sciences

ALPS-2-04
invited
11:30
Rare earth doped Aluminium oxide/nitride ceramics for light emitting application
Yasuhiro Kodera
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

ALPS-3-01 *invited* **11:00**
AI cell sorting - where photonics meets microfluidics and AI
Keisuke Goda
University of Tokyo

ALPS-3-02 *invited* **11:30**
In-vivo tomographic visualization of intracochlear vibration using supercontinuum multifrequency-swept optical coherence microscope
Samuel Choi
Niigata university

ALPS-3-03 12:00
Fluorescence imaging with Y_2O_3:Yb nanoparticles in the second near-infrared window
Yoshiaki Akino
The university of Nagoya

ALPS-3-04 12:15
Establishment of a novel measurement technique for pedicle screw stability -LASER resonance frequency analysis–
Daisuke Nakashima
Keio University

-----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

ALPS-4-01
13:00
Opening address
Chang Hee Nam
Institute for Basic Science

ALPS-4-02
13:05
Recent Progress on the ultra-intense and ultra-fast laser facility at SIOM from SULF to SEL
Yuxin Leng
State Key Laboratory of High Field Laser Physics, Shanghai Institute of Optics and Fine Mechanics, Chinese Academy of Sciences

ALPS-4-03
13:30
Ultra-intense sub-20 fs laser for nonlinear Compton scattering
Seong Ku Lee
IBS-GIST

ALPS-4-04
13:55
Recent Performance and Progress on the J-KAREN-P High Intensity Laser Facility
Hiromitsu Kiriyama
National Institutes for Quantum and Radiological Science and Technology

ALPS-4-05
14:20
Innovative Power Laser System Developed at Osaka University
Junji Kawanaka
Osaka University

ALPS-4-06
14:45
A multi-function high-intensity laser driver for intense radiation sources - Xingguang-III facility
Qihua Zhu
Laser Fusion Research Center, China Academy of Engineering Physics

-----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 *invited* **13:30**
Advances in Optical Time Transfer using Frequency Combs
Nathan Newbury
National Institute of Standards and Technology

ALPS-5-02 14:00
Dual-comb Based Angle Measurement Using a Grating and a Corner Cube Combined Sensor
Guanhao Wu
Tsinghua University

ALPS-5-03 14:15
Rapid Characterization of Orbital Angular Momentum Spectrum of Arbitrary Optical Vortex using Dual-comb Spectroscopy
Akifumi Asahara
The University of Electro-Communications

ALPS-5-04 14:30
Bidirectional dual-comb fiber laser with controllability of carrier-envelope-offset frequency
Yoshiaki Nakajima
The University of Electro-Communications

ALPS-5-05 14:45
Mutually coherent all-polarization-maintained dual-comb fiber laser with nonlinear amplifying loop mirror
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 Kiriyama

National Institutes for Quantum and Radiological Science and Technology

ALPS-6-01
15:40

Collisionless Shock Acceleration in Near Critical Density Relativistic Plasma

Chang Hee Nam

Institute for Basic Science

ALPS-6-02
16:05

Strong terahertz pulses generated from relativistic laser- produced plasmas

Yutong Li

Institute of Physics, Chinese Academy of Sciences

ALPS-6-03
16:30

Experimental Demonstration of a Laser Proton Accelerator with Image-Relaying Beam Transport

Chen Lin

.Peking University

ALPS-6-04
16:55

Dynamic structure enable relativistic electron plasma generation is microdroplet plasma

Krishnamurthy Manchikanti

Tata Institute of Fundamental Research

ALPS-6-05
17:20

500 TW Ti:sapphire laser at ETRI

Dong Hoon Song

Electronics and Telecommunications Research Institute

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 *invited* **15:30**
Miniature chip-based frequency combs: physics and applications
Kerry Vahala
California Institute of Technology

ALPS-7-02 *invited* **16:00**
Low timing jitter femtosecond fiber lasers and applications
Minglie Hu
Tianjin University

ALPS-7-03 16:30
Timing Jitter Suppression through Relative Intensity Noise Stabilization in High-repetition-rate Mode-locked Fiber Lasers
Yan Wang
Peking University,

ALPS-7-04 16:45
One-shot three-dimensional imaging using a stabilized all-optical Hilbert transform with optical frequency comb
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 *invited* **13:30**
Recent advances on the BELLA PW laser for collaborative research in laser plasma science
Csaba Toth
Lawrence Berkeley National Laboratory

JS-2[ALPS-J]-02 *invited* **14:00**
Status and Prospect of high energy density science with high power lasers at Osaka University
Ryosuke Kodama
Institute of Laser Engineering, Osaka University

JS-2[ALPS-J]-03 *invited* **14:30**
Status of the EBS Programme Implementation at the ESRF
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

ALPS-8-01 *invited* **13:30**
Linear Frequency Conversion in Rapidly Time-variant Metasurfaces
Bumki Min
KAIST

ALPS-8-02 *invited* **14:00**
Efficient SHG in Periodically Poled Lithium Niobate Microresonators
Fang Bo
Nankai University

ALPS-8-03 **14:30**
A study on the modulation of vector optical field with near-field conformal
Xibo Sun
Research Center of Laser Fusion, China Academy of Engineering Physics

ALPS-8-04 **14:45**
Hong-Ou-Mandel Interference between Photons Encoded with Orthogonal Spectra
Aruto Hosaka
Keio University

-----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 Kiriyama

National Institutes for Quantum and Radiological Science and Technology

ALPS-9-01 *invited* **15:15**
Recent status and progress of SULF 10 PW Laser
Xiaoyan Liang
Shanghai Institute of Optics and Fine Mechanics

ALPS-9-02 15:45
Overview of a multi-petawatt OPCPA laser facility
Kainan Zhou
Laser Fusion Research Center, China Academy of Engineering Physics

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
Hamamatsu Photonics K.K.

ALPS-9-04 16:15
Possible method for single-optical-cycle 100 petawatt lasers
Zhaoyang Li
Institute of Laser Engineering, Osaka University

ALPS-9-05 16:30
Wavefront optimization of Meter-size Gratings for 10PW-class lasers
Armaud Cotel
HORIBA Scientific

ALPS-9-06 16:45
600 mm deformable mirrors for multy PW lasers
Alexis Kudryashov
Institue of Geosphere Dynamics RAS

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 *invited* **15:30**
Optical Nanoantennas for Plasmon Enhanced Infrared Spectroscopy
Kai Chen
Jinan University

ALPS-10-02 16:00
Correlation between Optical Absorption and Device Performance of Metamaterial Perfect Absorber Solar Cells
Tomohisa Isegawa
Tokyo University of Agriculture and Technology

ALPS-10-03 16:15
Unidirectional launching and elongating propagation of Airy surface plasmon polaritons by a metasurface coupling grating
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.

ALPS-11-01 *invited*
9:15
Construction of multi-terawatt ALLEGRA laser system operating at 1 kHz repetition rate at ELI-Beamlines
Pavel Bakule
ELI-Beamlines

ALPS-11-02
9:45
Carbon Nanotube Mode-Locked Cr:ZnS Laser with 400 nm Tuning Range
Daiki Okazaki
Institute of Industrial Science, The University of Tokyo

ALPS-11-03
10:00
Development of ultra-low loss and high efficient cavity switch with UV writing ozone mixed gas switch
Yurina Michine
University of Electro-Communications

ALPS-11-04
10:15
All-ytterbium frontend for high-energy field synthesis and molecular fieldoscopy
Hanieh Fattahi
Max Planck Institute of Quantum optics

-----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 *invited* **9:00**
Quasi-phase-matched GaAs stacks for mid-infrared wavelength conversion fabricated with the room-temperature bonding
Ichiro Shoji
Chuo University

ALPS-12-02 9:30
Terbium Aluminium Garnet Ceramics for High-Average-Power LaserIsolators
Shigeki Tokita
Osaka University

ALPS-12-03 9:45
Temperature dependence of laser-induced damage by multiple pulses irradiation
Haruka Ogawa
Osaka University

ALPS-12-04 10:00
Group 10 based transition metal dichalcogenides 2D materials used for laser photonic applications
Yuen Hong Tsang
The Hong Kong Polytechnic University

ALPS-12-05 10:15
Evaluation of Sensing Structure of Laser Microphone using Self-coupling Effect of Laser Diode for Spherical Sound Wave
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
10:45
3D spatiotemporal distortion and detection of femtosecond petawatt lasers
Zhaoyang Li
Institute of Laser Engineering, Osaka University

ALPS-13-02
11:00
Time-resolved soft X-ray absorption spectroscopy of nitric oxide near N K-edge at 400 eV
Nariyuki Saito
The Institute for Solid State Physics, the University of Tokyo

ALPS-13-03
11:15
Temporal Change of the Optical Properties of Titanium Surface Irradiated by Femtosecond-Laser Pulses
Yuki Furukawa
Institute for Chemical Research, Kyoto University

ALPS-13-04
11:30
Attosecond Soft-X-Ray Spectroscopy of the Opto-Electronic Response of a Transition Metal Dichalcogenide Material
Jens Biegert
ICFO - The Institute of Photonic Sciences

ALPS-13-05
11:45
Time-resolved imaging of photoresist stripping dynamics induced by laser irradiation
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 *invited* **11:00**
PPLN-based compact modelocked laser
Ursula Keller
ETH Zurich

ALPS-14-02 11:30
High performance lead-free electro-optic and magneto-optic polycrystalline materials
Javier Garay
UC San Diego

ALPS-14-03 11:45
Super-flat white-light generation in multi-thin plates
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:Y_2O_3 ceramics fabricated by spark plasma sintering**
Mayu Imai
Kitami Institute of Technology

ALPS-P1-02 **Development of high-quality $CsLiB_6O_{10}$ crystal for high-power DUV application**
Masashi Yoshimura
Institute of Laser Engineering, Osaka University

ALPS-P1-03 **Crystal growth and optical properties of SrB_4O_7 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
Utsunomiya University

ALPS-P1-10 **Regenerative amplification of visible picosecond laser pulses with Praseodymium-doped gain media**
Shogo Fujita
Keio University

ALPS-P1-11 **High gain femtosecond CPA laser system based on Yb:YAG single crystal fiber boosters with different geometries**
Elena Sall
Korea Electrotetechnology Research Institute

ALPS-P1-12 **Spectral behavior of amplified near-infrared supercontinuum beam in ytterbium-doped double-clad passive fiber**
Misaki Shoji
Utsunomiya University

ALPS-P1-13 **Generation of single-cycle shortwave infrared pulses in BBO-based cascaded optical parametric amplifier**
Yu-Chieh Lin
Attosecond Science Research Team, RIKEN

ALPS-P1-14 **Parametric Amplification of Mid-Infrared Optical Pulses with Monolithic Carrier-Envelope Phase Stabilization by Multi-Plate Pulse Compression**
Nobuhisa Ishii
The Institute for Solid State Physics, The University of Tokyo

ALPS-P1-15 **Characteristics of longitudinally excited CO_2 laser operating at a high repetition rate**
Kohei Sakamoto
University of Yamanashi

ALPS-P1-16 **Key technologies for the high power cryogenically-cooled active-mirror amplifier**
Junpei Ogino
Institute of Laser Engineering, Osaka University

ALPS-P1-17 **Recovery dynamics of semiconductor saturable absorber for ultra-high intensity lasers**
Koichi Ogura
National Institutes for Quantum and Radiological Science and Technology

ALPS-P1-18 **Development of a diode-pumped stable laser for low-jitter OPCPA pumping**
Yasuhiro Miyasaka
National Institutes for Quantum and Radiological Science and Technology

ALPS-P1-19 **Effect of annealing on nonlinear optical properties of 70% deuterated DKDP crystal at 355 nm**
Dongting Cai
State Key Laboratory of Crystal Materials, Shandong University

ALPS-P1-20 **Large Diameter TGG Ceramic Faraday Rotator for kW Class Average Power Laser**
Hidetsugu Yoshida
Institute of Laser Engineering, Osaka University

ALPS-P1-21 **Fabrication of GelMA Hydrogel Micro/Nano Structures Using Femtosecond Laser Two-photon Polymerization**
Ziyuan Shi
Institute of Laser Engineering, Beijing University of Technology

ALPS-P1-22 **Single-shot 2-D burst imaging in sub-nanosecond region with spectrally sweeping ultrafast laser pulses**
Hirofumi Nemoto
Keio University

ALPS-P1-23 **Electron temperature of high-pressure argon plasma induced by femtosecond laser**
Yuki Mori
Aichi Institute of Techonology

ALPS-P1-24 **Short Pulse Light Source at 193nm for Hybrid ArF Laser**
Yuuki Tamaru
Gigaphoton Inc.

ALPS-P1-25 **Laser wavelength dependence of the soft x-ray spectra in a bismuth plasma**
Hiromu Kawasaki
Utsunomiya University

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 Er^{3+}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
Aichi Institute of Technology

ALPS-P2-11 **Signal processing using moving average method of self-coupling laser terminal voltage distance sensor**
Tatsuya Ohba
Aichi Institute of Technology

ALPS-P2-12 **Method Verification of Intensity Decision of Laser Microphone Using Deep Learning**
Ryota Mori
Aichi Institute of Technology

ALPS-P2-13 **Design concentration lens and simulate solar-pumped solid-state lasers by using a DPSS laser**
Bo-Wei Huang
National Chiao Tung University

ALPS-P2-14 **Development of intense terahertz source aiming at highly time resolved measurement of terahertz induced periodic surface structure formation**
Chikai Hosokawa
ICR Kyoto University

ALPS-P2-15 **Single shot 2D burst ultrafast imaging in terahertz region utilizing SF-STAMP**
Kazuki Takasawa
Keio University

ALPS-P2-16 **The modulation of femtosecond SPP wavepackets induced by MIM nano cavities**
Naoki Ichiji
The University of Tsukuba

ALPS-P2-17 **Fabrication of nano graphene wire employing ultrafast nanofocused surface plasmon pulses**
Takumi Matsuda
Keio University

ALPS-P2-18 **Improvement of image quality of rigid-endoscope OCT system using two-dimensional KTN optical scanner**
Masato Ohmi
Osaka University

ALPS-P2-19 **Wavelength Modulation Spectroscopy of Linalool Using Broadband 3μm 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**
Weiyoung 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

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 *invited* **9:00**
Diamond Raman Lasers
Richard Mildren
Macquarie University

ALPS-15-02 9:30
Characteristic of visible lasing with a Pr^{3+}-doped oxide crystal $YAlO_3$
Shogo Fujita
Keio University

ALPS-15-03 9:45
Efficient continuous-wave operation of Er:YAP single crystal laser at 2.92 μm
Hiroki Kawase
SOKENDAI

ALPS-15-04 10:00
Fabrication of Er-doped Microresonator for On-Chip Mode-locked Laser with CNT as Saturable Absorber
Riku Imamura
Department of Electronics and Electrical Engineering, Keio University

ALPS-15-05 10:15
High Quality-Factor Kerr-lens Mode-locked Tm:Sc_2O_3 Laser with anomalous spectral broadening
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 *invited* **9:00**
Terahertz manipulation of magnetization and terahertz devices based on the magnetic materials
Makoto Nakajima
Osaka University

ALPS-16-02 9:30
Sub-THz spectrscopy using laser chaos
Fumiyoshi Kuwashima
Fukui University of Technology

ALPS-16-03 9:45
Index-Tunable Terahertz Metamaterials with Lowered Loss Based on Double-Layered Asymmetric Closed-Ring Resonator Arrays
Tatsunosuke Matsui
Mie University

ALPS-16-04 10:00
Terahertz Semiconductor Quantum Devices and Their Applications
Juncheng Cao
Shanghai Institute of Microsystem and Information Technology, Chinese Academy of Sciences

ALPS-16-05 10:15
The observation of spin reorientation phase transition in $Sm_{1-x}Er_xFeO_3$ by terahertz time domain spectroscopy
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 *invited* **11:00**
Femtosecond-laser-driven micro undulator for THz emission
Ye Tian
Shanghai Institute of Optics and Fine Mechanics

ALPS-17-02 **11:30**
Actively stabilized extreme ultraviolet attosecond interferometer
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 *invited* **11:00**
Large Phase Modulation of THz Wave Based on Dynamic Mode Coupling Metasurfaces
Yaxin Zhang
University of Electronic Science and Technology of China

ALPS-18-02 11:30
Observation of Nonlinear Propagation Effects in High Harmonic Generation from Bulk Gallium Arsenide
Peiyu Xia
Institute for Solid State Physics, The University of Tokyo

ALPS-18-03 11:45
Second harmonic generation of ultraviolet laser based on a laser diode array with an external cavity of a volume Bragg grating
Liemao Hu
Institute of Electronics, Chinese Academy of Sciences

-----Lunch (12:00 - 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

ALPS-19-01 *invited* **13:15**
Physics and applications of monolithic mode-locked lasers with ultra-low intrinsic noise
Thomas R Schibli
University of Colorado

ALPS-19-02 *invited* **13:45**
Oxide semiconductors for nonlinear optics and ultrafast pulse lasers
Jianrong Qiu
Zhejiang University

ALPS-19-03 14:15
360 fs pulses with gigawatt peak power from a Tm:YAP based ring cavity regenerative amplifier
Seyed Ali Rezvani
Institute for Molecular Science

ALPS-19-04 14:30
Dual Wavelength and Widely Tuneable Operation of Nd,Gd:SrF_2 Laser
Vaclav Kubecek
Czech Technical University in Prague, Faculty of Nuclear Sciences and Physical Engineering

ALPS-19-05 14:45
Neural Network Controlled Coherent Beam Combining
Henrik Tuennermann
Institue for Laser Science, University of Electro-Communications

-----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 *invited* **15:30**
Dark-bright vector soliton emission fiber lasers
Dingyuan Tang
Nanyang Technological University

ALPS-20-02 16:00
Spectral dynamics of build-up femtosecond pulse in mode-locked Yb fibre laser with time stretch spectroscopy
Masayuki Suzuki
Aich Medical University

ALPS-20-03 16:15
Liner Polarization High Peak Power Pulse Amplification By Using A Polarization Maintaining Very Large Mode Area Er-Doped Fiber Amplifier
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