

Euromphoton 2020 - Final results contributed papers

Topic	Paper no.	Title	Authors	Paper result
SSL	5	High-peak power passively Q-switched Nd:YAG/Cr ⁴⁺ :YAG laser for multi-point ignition of lean methane-air mixtures	Nicolae-Tiberius Vasile , Radu Chiriac , Nicolaie Pavel	Poster
FWD	6	150-W continuous wave laser emission at 2.09 μm from a Tm ³⁺ , Ho ³⁺ -codoped single-oscillator monolithic fiber laser	Arnaud Motard , Nicolas Dalloz , Christophe Louot , Thierry Robin , Benoit Cadier , Inka Manek-Hönninger , Anne Hildenbrand-Dhollande	Oral
FWD	7	Fundamental mode field evolution in a tapered optical fibre	Jaime R. Ek-Ek , Fernando Martinez-Pinon , Herman L. Offerhaus , Jose A. Alvarez.Chavez	Poster
SSL	8	Temporally resolved studies of thermal effects in high power ZGP OPO pumped by high-repetition Ho:LLF MOPA system	Marcin Piotrowski , Manuel-Alessandro Medina , Martin Schellhorn , Anne Hildenbrand-Dhollande	Oral
FWD	9	Stable operation of a high-power Tm ³⁺ :ZBLAN fiber MOPA at 813 nm	Yuichi Takeuchi , Eiji Kajikawa , Tomohiro Ishii , Kazuhiko Ogawa , Mitsuru Musha	Oral
FWD	10	Numerical and Experimental Optimization of Fiber-Coupling Conditions for Spontaneous Parametric Down-Conversion	Tobias Bernd Gäbler , Rana Sebak , Susana Plascencia Orozco , Markus Gräfe , Fabian Oliver Steinlechner	Poster
SSL	11	33 W OPCPA at 10 kHz repetition rate with four cycle pulse duration at 2.1 μm based on a single pump laser	Anke Heilmann , Martin Bock , Lutz Ehrentraut , Stefan Eisebitt , Matthias Schnürer	Oral

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SSL	12	Compact picosecond mid-IR PPLN OPO in burst-mode operation	Yudi Wu , Sijing Liang , Qiang Fu , Lin Xu , David J. Richardson	Oral
FWD	13	Numerical study of effect of bending and twist on pump absorption in octagonal double-clad fiber	Martin Grábner , Kanagaraj Nithyanandan , Pavel Peterka , Pavel Koška , Ali A. Jasim , Pavel Honzátko	Poster
SSL	14	Prospects of UV diode pumping of Tb-based solid-state lasers with visible emission	Sascha Kalusniak , Hiroki Tanaka , Elena Castellano-Hernández , Christian Kränkel	Oral
SSL	15	Laser emission of Tb ³⁺ :BaY ₂ F ₈ at 581.1 nm in the yellow range	Elena Castellano-Hernández , Eugenio Damiano , Mauro Tonelli , Christian Kränkel	Oral
FWD	16	Optical parametric amplification in gas-filled hollow core capillary for the generation of tunable pulses in the infrared	Olivia Zurita-Miranda , Coralie Fourcade-Dutin , Pierre Béjot , Frédéric Fauquet , Jean-Paul Guillet , Frédéric Darracq , Patrick Mounaix , Hervé Maillotte , Damien Bigourd	Oral
FWD	17	Pump Combiner with Chirally Coupled Core Fibers for Side Pumped Single Frequency All Fiber Amplifiers	Eike Brockmüller , Sven Hochheim , Peter Wessels , Joon Koponen , Tyson Lowder , Steffen Novotny , Jörg Neumann , Dietmar Kracht	Oral

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SSL	18	Wedged Nd:YVO ₄ crystal for wavelength tuning of monolithic passively Q-switched picosecond microchip lasers	André Marianovich , Stefan Spiekermann , Moritz Brendel , Peter Weßels , Jörg Neumann , Markus Weyers , Dietmar Kracht	Poster
FWD	20	Spectro-temporal dynamics in a fiber optical parametric oscillator	Mohamed Touil , Rezki Bechecker , Thomas Godin , Ammar Hideur	Oral
SSL	21	Multi-Watt, mJ nanosecond pulses amplification in a Yb:LuLiF ₄ single crystal fiber grown by micro-pulling-down	Sara Pizzurro , Federico Pirzio , Shu Jun , Alberto Di Lieto , Mauro Tonelli , Antonio Agnesi	Oral
SSL	23	38 W high repetition rate ZGP OPO and novel approaches to improve beam quality in miniaturized non-planar cavities	Manuel Alessandro Medina , Marcin Piotrowski , Martin Schellhorn , Frank Wagner , Antoine Berrou , Anne Hildenbrand-Dhollande	Oral
SSL	24	Er:YLF microchip laser for free-running and gain-switching laser operation in spectral range 2.83 μm	Richard Švejkar , Jan Šulc , Michal Němec , Helena Jelínková	Poster
SSL	25	Detailed spectroscopic Analysis of CaF ₂ : Nd, X ³⁺ , Z ³⁺ (X, Z = Gd, La, Ce, Y, Lu, Sc) Crystals for High energy Lasers Applications	Cesare Meroni , Alain Braud , Jean-Louis Doualan , Cédric Maunier , Denis Penninckx , Patrice Camy	Poster
FWD	26	CO ₂ -laser based manufacturing of a few-mode all-fiber evanescent field coupler	Felix Wellmann , Michael Steinke , Peter Weßels , Ludger Overmeyer , Jörg Neumann , Dietmar Kracht	Oral

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FWD	27	Generation of high-energy pulses in a Thulium-doped fiber Mamyshev oscillator	Paul Reppen , Benedikt Schuhbauer , Moritz Hinkelmann , Dieter Wandt , Andreas Wienke , Uwe Morgner , Jörg Neumann , Dietmar Kracht	Oral
SSL	28	LED-pumped femtosecond Cr:LiSAF regenerative amplifier	Hussein Taleb , Pierre Pichon , Frédéric Druon , François Balembois , Patrick Georges	Oral
FWD	30	Two-frequency heteronuclear soliton molecules	Stephanie Willms , Surajit Bose , Uwe Morgner , Ihar Babushkin , Oliver Melchert , Ayhan Demircan	Poster
FWD	31	Generation of 60 fs pulses at 780 nm by frequency doubling of Er doped fiber laser with tunable repetition rate for TPEF imaging	Dorota Stachowiak , Jakub Bogusławski , Aleksander Głuszek , Arkadiusz Hudzikowski , Zbigniew Łaszczych , Maciej Wojtkowski , Grzegorz Soboń	Oral
SSL	32	Infrared and self-frequency-doubling emission characteristics of diode-pumped Nd:LGSB laser crystal	Catalina-Alice Brandus , Madalin Greculeasa , Alin Broasca , Flavius Voicu , Lucian Gheorghe	Poster

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SSL	33	New Yb:LYSB bifunctional crystal for efficient near-infrared laser emission and self-frequency doubling conversion	Alin Broasca , Madalin Greculeasa , Flavius Voicu , Stefania Hau , Gabriela Croitoru , Cristina Gheorghe , Nicolaie Pavel , Lucian Gheorghe	Poster
FWD	34	Polarization-domain-wall in a dual-color mode-locked fiber laser	Ahmed Nady , Meriem Kemel , Georges Semaan , Mohamed Salhi , Francois Sanchez	Poster
SSL	35	All-Bulk Pulse Stretching and Compression for Near Infrared Optical Parametric Amplifiers	Giedre Archipovaite , Gabriel Karras	Poster
SSL	36	Fabrication of a quasi-phase-matching stack of multiple GaAs plates with lower scattering loss at the bonded interfaces by use of room-temperature bonding	Rika Tanimoto , Yuki Takahashi , Ichiro Shoji	Oral
SSL	37	2.5 μm and 4.5 μm Lasing in Cr^{2+} , Fe^{2+} : $\text{Zn}_{0.81}\text{Mg}_{0.19}\text{Se}$ Single Crystal under 1.73 μm Q-switched Pumping via $\text{Cr}^{2+} \rightarrow \text{Fe}^{2+}$ Energy Transfer	Adam Riha , Maxim Doroshenko , Helena Jelinkova , Michal Nemeč , Michal Jelinek , Nazar Kovalenko , Igor Terzin	Poster
SSL (special symposium)	38	High Resolution Mid Infrared Up-Conversion LIDAR	Max Widarsson , Markus Henriksson , Patrick Mutter , Carlota Canalias , Valdas Pasiskevicius , Fredrik Laurell	Oral

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SSL	39	Post-compression of high average power picosecond pulses for few cycle generation and FEL pump-probe experiments	Anne-Lise Viotti , Skirmantas Alisauskas , Prannay Balla , Ammar Bin Wahid , Ivan Sytcevich , Chen Guo , Laura Silletti , Andrea Cartella , Hamed Tavakol , Uwe Grosse-Wortmann , Arthur Schönberg , Marcus Seidel , Bastian Manschwetus , Tino Lang , Andrea Trabattoni , Francesca Calegari , Arnaud Couairon , Anne L'Huillier , Cord L. Arnold , Ingmar Hartl , Christoph M. Heyl	Oral
FWD	40	Surface Plasmon Polariton neuromorphic circuit with sigmoid activation function	Hamed Tari , Alessandro Bile , Francesca Moratti , Eugenio Fazio	Poster
SSL	43	Powerful broadband intracavity THz generation in a compact ultrafast diode-pumped laser oscillator	Marin Hamrouni , Jakub Drs , Julian Fischer , Norbert Modsching , Valentin Wittwer , François Labaye , Thomas Südmeyer	Oral
FWD	44	Using the Variable Pump Intensity method to measure optical gains and unveil photophysical and photonic phenomena in active waveguides	Luis Cerdán , Marco Anni , Maria Luisa De Giorgi , Pedro G. Boj , María Angeles Díaz-García	Oral

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SSL	45	Nonlinear spectral compression in a multipass cell	Nour Daher , Florent Guichard , Xavier Délen , Yoann Zaouter , Marc Hanna , Patrick Georges	Oral
SSL	46	Enhancement of the laser emission efficiency of Yb:Y2O3 ceramics via multi-step sintering method fabrication	George Stanciu , Flavius Voicu , Catalina-Alice Brandus , Cristina Tihon , Stefania Hau , Cristina Gheorghe , Gabriela Croitoru , Lucian Gheorghe	Poster
FWD	47	Fiber optical parametric chirped-pulse oscillator at 1220 nm	Rezki Becheker , Mohamed Touil , Said Idlahcen , Mincheng Tang , Adil Haboucha , Benoit Barviau , Frédéric Grisch , Patrice Camy , Thomas Godin , Ammar Hideur	Oral
SSL	48	Kerr-lens mode locked, synchronously pumped, ultra-broadband breathing pulse optical parametric oscillator	Jintao Fan , David Zuber , Robin Mevert , Tino Lang , Thomas Binhammer , Uwe Morgner	Oral
SSL	49	High-harmonic generation in the water window with a high-average power mid-infrared OPCPA at 100 kHz	Pierre-Alexis Chevreuil , Justinas Pupeikis , Nicolas Bigler , Lukas Gallmann , Christopher Richard Phillips , Ursula Keller	Upgrade to invited
FWD	50	Mitigation of transverse mode instability in high-power fiber amplifiers using traveling waves	Yiming Tu , Cesar Jauregui , Christoph Stihler , Sohby E. Kholaf , Jens Limpert	Oral

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FWD	51	Characterization of square pulses in passively mode-locked fiber laser	Meriem Kemel , Mohamed Salhi , Georges Semaan , Ahmed Nady , François Sanchez	Oral
SSL	52	Direct laser writing to the PbO-rich phosphate glasses modified by CoO	Jan Smolík , Jiří Schwarz , Petr Knotek , Petr Kutálek , Eva Černošková	Poster
SSL	53	CW Nd:YVO4 disk laser with multipoint diode pumping and in-phase super-mode lasing	Guryev Denis , Nikolaev Dmitri , Tsvetkov Vladimir	Poster
SSL	54	Programmable Generation of Multi-Millijoule Femtosecond Pulse Bursts with Terahertz Intraburst Repetition Rate	Vinzenz Stummer , Tobias Flöry , Edgar Kaksis , Audrius Pugžlys , Andrius Baltuška	Oral
FWD	55	Passively Q-switched Yb-doped fiber laser based on Ag nanoplates saturable absorber	Pan Wang , Vittorio Scardaci	Poster
SSL (special symposium)	56	Molecular Quantum Wakes for Clearing Fog	Malte C. Schroeder , Iliia Larkin , Thomas Produit , Eric W. Rosenthal , Howard Milchberg , Jean-Pierre Wolf	Oral
FWD	57	Hybrid Electronically Addressed Random Fibre Laser	Walter Margulis , Avishek Das , Jean Pierre von der Weid , Anderson S. L. Gomes	Poster
SSL	58	Nonlinear plasmonic metasurfaces assisted laser mode locking	Lei Zhang , Jiyong Wang , Aurelien Coillet , Philippe Grellu , Benoit Cluzel , Min Qiu	Poster

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SSL	59	Growth, spectroscopy and diode-pumped laser operation of acentric Yb:KGd(PO ₃) ₄ crystal	Shanming Li , Anna Volokitina , Rosa Maria Solé , Pavel Loiko , Valentin Petrov , Uwe Griebner , Yin Hang , Francesc Díaz , Magdalena Aguiló , Xavier Mateos	Oral
SSL	60	Synchronously pumped picosecond Raman laser at 1172 nm based on a PbMoO ₄ crystal	Milan Frank , Sergei N. Smetanin , Michal Jelínek , David Vyhliđal , Vladislav E. Shukshin , Petr G. Zverev , Václav Kubeček	Poster
FWD	61	Demonstration of supercontinuum and frequency shifted solitons pumped at 1.56 μm as seed sources for Tm-doped fiber amplifiers	Olga Szewczyk , Aleksander Głuszek , Tadeusz Martynkien , Karol Tarnowski , Paweł Mergo , Grzegorz Soboń	Oral
FWD	63	Incription of efficient top-hat elements in the glass using high power femtosecond laser system	Sergej Orlov , Pavel Gotovski , Paulius Šlevas , Orestas Ulčinas , Ernestas Nacius , Erminas Kozlovskis , Vytautas Jukna , Titas Gertus	Poster
SSL	64	Flat axial intensity profile in the Bessel beam for beam shaping applications in laser systems	Pavel Gotovski , Paulius Šlevas , Orestas Ulčinas , Ernestas Nacius , Benas Stanionis , Sergej Orlov , Vytautas Jukna , Titas Gertus	Poster
FWD	65	Amplitude-noise reducing mechanism in fiber lasers mode-locked with nonlinear amplifying loop mirror	Marvin Edelmann , Yi Hua , Kemal Şafak , Franz Kärtner	Oral

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FWD	66	Time-Locked Multi-Color Single-Aperture Fiber Sources via Soliton Self-Mode Conversion	Havva Begüm Kabagöz , Aku Antikainen , Siddharth Ramachandran	Upgrade invited
FWD	67	The C-cavity, a highly versatile and simple laser design	Robert Lindberg , Fredrik Laurell , Krister Fröjdh , Walter Margulis	Oral
FWD	68	Polychromatic soliton molecules from a fiber laser	Joshua P. Lourdesamy , Antoine F. J. Runge , Tristram J. Alexander , Darren D. Hudson , Andrea Blanco-Redondo , C. Martijn de Sterke	Upgrade invited
FWD	69	Dependence of Raman scattering on the orbital angular momentum of light	Xiao Liu , Aku Antikainen , Siddharth Ramachandran	Oral
SSL	70	Few-cycle mid-infrared pulses from BaGa ₂ GeSe ₆	Ugaitz Elu , Luke Maidment , Lenard Vamos , Tobias Steinle , Florian Haberstroh , Valentin Petrov , Valeriy Badikov , Dmitrii Badikov , Jens Biegert	Oral
SSL	71	Sub-3-cycle radially polarized pulses from post-compression in multiple thin plates	Huabao Cao , Roland Sandor Nagymihaly , Nikita Khodakovskiy , Rodrigo Lopez-Martens , Viktor Pajer , Janos Bohus , Benoit Bussiere , Franck Falcoz , Adam Borzsonyi , Mikhail Kalashnikov	Oral

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FWD	72	High-energy pulses from an Yb-doped fiber Mamyshev oscillator by the use of a few-mode amplification fiber	Paul Reppen , Dieter Wandt , Andreas Wienke , Uwe Morgner , Jörg Neumann , Dietmar Kracht	Oral
FWD	73	Joint spatial profile and frequency conversion of an LP ₀₇ -fiber mode towards the blue spectral region	Robert Lindberg , Xiao Liu , Siddharth Ramachandran , Valdas Pasiskevicius	Oral
SSL	74	In-situ measurement of delay for the Xe giant plasmonic resonance	Dong Hyuk Ko , Graham G. Brown , Chunmei Zhang , Paul B. Corkum	Oral
SSL	75	65-fs pulse generation from a SESAM mode-locked Tm,Ho:CLNKG laser at 2.07 μm	Yongguang Zhao , Zhongben Pan , Li Wang , Weidong Chen , Yicheng Wang , Soile Suomalainen , Antti Härkönen , Mircea Guina , Pavel Loiko , Xavier Mateos , Uwe Griebner , Valentin Petrov	Oral
SSL	76	High-harmonic generation inside a 100-fs Yb:YAG Kerr-lens mode-locked thin-disk laser oscillator	Jakub Drs , Julian Fisher , François Labaye , Norbert Madsching , Valentin J. Wittwer , Thomas Südmeyer	Oral

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SSL (special symposium)	77	Mid-infrared Two-Photon Interference and Entanglement	Adetunmise Charles Dada , Taylor Shields , Shashi Prabhakar , Mehdi Ebrahim , Gregor G. Taylor , Dmitry Morozov , Kleanthis Erotokritou , Shigehito Miki , Masahiro Yabuno , Hirotaka Terai , Corin Gawith , Michael Kues , Lucia Caspani , Robert H. Hadfield , Matteo Clerici	Oral
SSL	78	Femtosecond ultra-broadband non-collinear optical parametric oscillator in the visible spectral range (VIS-NOPO)	Robin Mevert , Yuliya Binhammer , Jintao Fan , Thomas Binhammer , Christian Markus Dietrich , José Ricardo Andrade , Luise Beichert , Uwe Morgner	Poster
FWD	79	Broadband Mamyshev oscillator around 1550 nm in stable and multiple pulse regimes	Coraline Lapre , Cyril Billet , Fanchao Meng , Christophe Finot , Lauri Salmela , Goery Genty , John M. Dudley	Oral
SSL	80	Non-collinear Optical Parametric Oscillator as fast tuneable light source for Stimulated Raman Scattering	Luise Beichert , Yuliya Binhammer , José Ricardo Andrade , Uwe Morgner	Oral
SSL (special symposium)	81	Parametric source for DIAL applications, pumped by a single-frequency, nanosecond, multi-mJ, 5 kHz hybrid master oscillator power amplifier	Thomas Hamoudi , Xavier Délen , Jean-Michel Melkonian , Myriam Raybaut , Jean-Baptiste Dherbecourt , Antoine Godard , Patrick Georges	Oral

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FWD	82	High-Efficient PPLN Waveguide Array for Entangled Two-Photon Fluorescence Microscopy	Josué R. León-Torres , Tobias B. Gäbler , Marta Gilaberte Basset , Fabian Steinlechner , Markus Gräfe	Oral
FWD	84	Estimation of Interlock Requirements for High-Power EYDFA	Phillip Booker , Omar De Varona , Michael Steinke , Peter Wessels , Jörg Neumann , Dietmar Kracht	Poster
SSL	85	Modal Reconstruction of Transverse Mode-Locked Laser Beams	Florian Schepers , Tim Hellwig , Carsten Fallnich	Oral
FWD	86	Geometrical phase elements based on clusters of nanoparticles and their application for generation of top-hat beams	Klemensas Laurinavičius , Justas Berškys , Pavel Gotovski , Paulius Kizevičius , Sergej Orlov , Vytautas Jukna , Titas Gertus	Poster
FWD	87	Transverse mode instability in fiber-laser systems driven by intensity noise	Sobhy E. Kholaf , Christoph Stihler , Cesar Jauregui , Yiming Tu , Jens Limpert	Oral
FWD	88	Quantitative analysis of cooperative upconversion in Al ₂ O ₃ :Yb ³⁺ waveguides on silicon	Pavel Loiko , Laura Agazzi , Cristine Kores , Meindert Dijkstra , Dimitri Geskus , Markus Pollnau	Oral
SSL	89	Highly efficient frequency down-conversion by optical rectification	Claudia Gollner , Mostafa Shalaby , Ignas Astrauskas , Corinne Brodeur , Andrius Baltuska , Audrius Pugzlys	Oral
FWD	90	Dispersion management of all-PM NALM-based Er-doped fiber laser	Zbigniew Laszczych , Grzegorz Soboń	Poster

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FWD	91	Reflection, transmission, and loss curves and intensity distributions in distributed-feedback resonators with propagation losses	Jerry Yeung , Markus Pollnau	Oral
SSL	92	Overcoming gas ionization limits with divided-pulse nonlinear compression.	Gregory W Jenkins , Chengyong Feng , Jake Bromage	Oral
SSL	93	Dual-comb thin-disk laser oscillator based on polarization splitting: concept and noise evaluation	Norbert Modsching , Jakub Drs , Julian Fischer , Pierre Brochard , Stéphane Schilt , Valentin J. Wittwer , Thomas Südmeyer	Oral
SSL	94	Yb:CALGO bulk oscillator generating ultrashort pulses at high efficiency by cross-polarized optical pumping	François Labaye , Valentin J. Wittwer , Norbert Modsching , Olga Razskazovskaya , Eric Cormier , Thomas Südmeyer	Oral
SSL	95	Supercontinuum generation and optical damage of sapphire and YAG at high repetition rates	Robertas Grigutis , Gintaras Tamošauskas , Vytautas Jukna , Alex Risos , Audrius Dubietis	Poster
FWD	96	Phase stabilization of a compact all-PM mode locked Yb: fiber laser to optical frequency	Yuxuan Ma , Sarper Salman , Chen Li , Christoph Mahnke , Jakob Fellingner , Aline S Mayer , Oliver H Heckl , Christoph M Heyl , Ingmar Hartl	Oral
SSL	97	High-power, wavelength-tunable red-diode-pumped Alexandrite laser	Goronwy Tawy , Ara Minassian , Michael J. Damzen	Oral

SSL	98	Femtosecond dual-comb Yb:CaF ₂ laser from a free-running polarization-multiplexed cavity for rapid optical sampling	Benjamin Willenberg , Justinas Pupeikis , Léonard M. Krüger , Florian Koch , Christopher R. Phillips , Ursula Keller	Oral
FWD	99	Pump conversion and beam clean up at cascaded random Raman lasing in multimode graded-index fibers	Alexey G. Kuznetsov , Sergey I. Kablukov , Ekaterina A. Evmenova , Alexey A. Wolf , Evgeniy V. Podivilov , Stefan Wabnitz , Sergey A. Babin	Oral
FWD	100	Investigation of sources of subnanosecond pulses of the visible spectral range for medical systems	Irina V. Zhlyuktova , Vladimir A. Kamynin , Nataliya R. Arutyunyan , Anatoly S. Pozharov , Anton I. Trikshev , Serafima A. Filatova , Elena D. Obraztsova , Vladimir B. Tsvetkov	Poster
SSL	102	Influence of higher order dispersion on a half-harmonic generator	Christian Markus Dietrich , Ihar Babushkin , José Ricardo Cardoso de Andrade , Han Rao , Ayhan Demircan , Uwe Morgner	Oral
FWD	103	Polarization-dependent relative intensity noise of fiber supercontinuum sources	Dirk-Mathys Spangenberg , Benoît Sierro , Alexander M. Heidt	Oral
SSL	104	Degenerate Backward wave Optical Parametric Oscillator	Patrick Mutter , Andrius Zukauskas , Anne-Lise Viotti , Valdas Pasiskevicius , Carlota Canalias	Oral

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FWD	105	3D printed Er-doped silica fibre by Direct Ink Writing	Angeles L. Camacho-Rosales , Martín Núñez-Velázquez , Jayanta Sahu	Oral
SSL	106	Passively mode-locked cryogenic Yb:YLF laser with 28 W average power	Umit Demirbas , Jelto Thesinga , Huseyin Cankaya , Martin Kellert , Franz X. Kärtner , Mikhail Pergament	Oral
SSL	107	SHG and SFG processes at a 100 kHz picosecond diode-pumped Yb:YAG thin disk laserr	Hana Turcicova , Ondrej Novak , Jiri Muzik , Denisa Stepankova , Martin Smrz , Antonio Lucianetti , Tomas Mocek	Poster
SSL	108	Mid-infrared electric field sampling approaching single-photon sensitivity	Christina Hofer , Daniel Gerz , Maximilian Högner , Thomas P. Butler , Christian Gaida , Tobias Heuermann , Martin Gebhardt , Nicholas Karpowicz , Jens Limpert , Ferenc Krausz , Ioachim Pupeza	Upgrade to Invited
SSL	109	Third harmonic generation from thin gradient layers	David Zuber , Ayhan Tajalli , Morten Steinecke , Marco Jupé , Lars Jensen , Detlef Ristau , Uwe Morgner	Poster
FWD	110	Correlation of mode instabilities in forward and backward direction	Friedrich Möller , Victor Distler , Maximilian Strecker , Till Walbaum , Thomas Schreiber , Andreas Tünnermann	Oral

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SSL	111	Comparative study of rare-earth (Dy ³⁺ , Ho ³⁺ , Er ³⁺) doped barium fluoride single crystals for diode-pumped ~3.0 μ m laser development	Ei Ei Brown , Zackery Fleischman , Jenny Rosen , William Haller , Jason McKay , Mark Dubinskii	Oral
FWD	112	Assembly process and sub-Doppler spectroscopy of end-capped photonic micro-cell	Thomas Billotte , Matthieu Chafer , Martin Maurel , Foued Amrani , Frederic Gerome , Benoit Debord , Fetah Benabid	Oral
FWD	113	Pulsed Single-Frequency Polarization-Maintaining Holmium Laser at 2050 & 2090 nm	Dominik Lorenz , Clément Romano , Christelle Kieleck , Marc Eichhorn	Oral
SSL	114	Narrowband Difference-frequency Generation at 4.6 – 10.8 μ m in LiGaS ₂ and LiGaSe ₂ Pumped by 20-picosecond Nd:YAG Laser and Raman Laser Seeding	Michal Jelinek , Vaclav Kubecek , Miroslav Cech , Sergei Smetanin , Aleksey Kurus' , Sergei Lobanov , Vitaliy Vedenyapin , Lyudmila Isaenko	Oral
SSL	115	Hybridizing Multi-pass and Multi-plate Bulk Compression	Marcus Seidel , Prannay Balla , Thomas Binhammer , Maik Frede , Gunnar Arisholm , Lutz Winkelmann , Ingmar Hartl , Christoph M. Heyl	Oral
FWD	116	High-energy spatiotemporal solitons in GRIN fiber	Fabio Mangini , Mario Zitelli , Mario Ferraro , Denis Sergeevich Kharenko , Alioune Niang , Alessandro Tonello , Vincent Couderc , Stefan Wabnitz	Oral

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SSL	117	Ultrafast optical parametric amplification as an alternative to regenerative amplification	Yannik Zobus , Christian Brabetz , Jiping Zou , Vincent Bagnoud	Oral
FWD	118	Influences on the direction probabilities for the direction instability phenomenon in fiber ring lasers	Muhammad A. Arshad , Arni Pratiwi , Alexander Hartung , Matthias Jäger	Poster
FWD	119	A passively mode-locked Holmium fiber oscillator based on a Nonlinear Amplifying Loop Mirror operating at 2050 nm	Christoph Mahnke , Yuxuan Ma , Sarper Salman , Christoph M. Heyl , Ingmar Hartl	Oral
FWD	120	Smart auto-setting mode-locked laser using an evolutionary algorithm	Jérémie Girardot , Franck Billard , Aurélien Coillet , Edouard Hertz , Philippe Grelu	Oral
SSL	122	Mid-infrared waveform measurement by rapid mechanical scanning	Philip Jacob , Alexander Weigel , David Gröters , Theresa Buberl , Michael Trubetskov , Marinus Huber , Joachim Heberle , Joachim Pupeza	Oral
FWD	123	Measurement of internal fluctuations within 2-micron-laser soliton molecules by nonlinear optical cross-correlation	Saïd Hamdi , Aurélien Coillet , Youjian Song , Philippe Grelu	Oral

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FWD	124	REPUSIL-based Large Mode Area fiber designs for megawatt peak power picosecond tapered fiber amplifiers	Martin Leich , André Kalide , Martin Lorenz , Tina Eschrich , Adrian Lorenz , Jens Kobelke , Katrin Wondraczek , Dörte Schönfeld , Andreas Langner , Clemens Schmitt , Jaqueline Plass , Gerhard Schötz , Matthias Jäger	Oral
SSL	125	High average power, single-cycle THz generation in Lithium Niobate	Tim Vogel , Samira Mansourzadeh , Frank Meyer , Dilyan Damyanov , Martin Saraceno , Jan C. Balzer , Clara J. Saraceno	Oral
SSL	126	Femtosecond arrival time stability of pump probe laser system at the FLASH free electron laser	Nora Schirmel , Sebastian Schulz , Bastian Manschwetus , Jost Müller , Holger Schlarb , Ingmar Hartl	Oral
SSL	127	High-power CW Ho:YAG thin-disk laser and first SESAM-modelocking	Sergei Tomilov , Tim Vogel , Martin Hoffmann , Yicheng Wang , Clara J. Saraceno	Oral
FWD	128	Enhanced linewidth narrowing in a distributed-feedback resonator	Cristine Kores , Dimitri Geskus , Meindert Dijkstra , Markus Pollnau	Oral
FWD	129	Femtosecond writing of waveguides structures inside PMMA.	Dmitrii Perevoznik , Ayhan Demircan , Uwe Morgner	Poster

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SSL	131	Interferometric stabilization of a difference-frequency conversion set-up for CEP stable Mid IR frequency comb generation	Dominic Laumer , Guang Yang , Vinicius Silva De Oliveira , Yuxuan Ma , Andrey Yachmenev , Axel Ruehl , Piotr Masłowski , Jochen Küpper , Christoph M. Heyl , Ingmar Hartl	Oral
SSL	132	Trade-offs in maximum-phonon-energy and thermal conductivity for mid-infrared laser materials	Zackery Fleischman , Ei Ei Brown , Victoria Blair , Mark Dubinskii	Oral
SSL	133	A pulse compression scheme and its application to spin emitter characterization	Anne-Laure Calendron , Joachim Meier , Elias Kueny , Sven Velten , Lars Bocklage , Ralf Röhlsberger , Franz X. Kärtner	Oral
FWD	134	New operating regimes of dark rectangular pulses in a high finesse standing wave cavity	Nitish Paul , Chandrapal Singh , Pradeep Kumar Gupta , Pranab Kumar Mukhopadhyay , Kushvinder Singh Bindra	Poster
FWD	135	Research on amplification of ultrashort laser pulses at 1.03 μm in gain-managed nonlinearity regime	Dorota Tomaszewska , Grzegorz Soboń	Oral
SSL	136	Comparative study of Ho:Y3Al5O12 and Ho:Y2O3 transparent ceramics synthesized from laser ablated nanopowders	Liza Basyrova , Roman Maksimov , Vladislav Shitov , Alexander Khubetsov , Olga Dymshits , Mikhail Baranov , Florent Starecki , Patrice Camy , Pavel Loiko	Oral

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SSL	137	Full-energy, vacuum-compatible, single-shot pulse characterization method for petawatt-level ultra-broad bandwidth lasers using spatial sampling	Benjamin Webb , Seung-Whan Bahk , Ildar A. Begishev , Christophe Dorrer , Chengyong Feng , Cheonha Jeon , Michael Spilatro , Richard Roides , Jonathan Zuegel , Jake Bromage	Poster
SSL	138	Femtosecond soft-X-Ray absorption spectroscopy of liquids with a water-window high-harmonic source	Tadas Balciunas , Adam Smith , Yi-Ping Chang , Cédric Schmidt , Kristina Zinchenko , Fernanda Nunes , Vit Svoboda , Emanuele Rossi , Zhong Yin , Jean-Pierre Wolf , Hans-Jakob Wörner	Oral
SSL	139	Exploiting $\chi^{(2)}$: ultra-broadband combs and few-cycle pulses from an erbium fiber laser	Daniel Lesko , Henry Timmers , Sida Xing , Abijith Kowligy , Alexander Lind , Scott Diddams	Oral
FWD	140	Phase shifts during mirror transmission and reflection in laser resonators	Jerry Yeung , Markus Pollnau	Oral
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SSL	144	75 fs, 1 MHz, 80 μ J burst-mode pump probe laser for the FLASH soft-X-ray FEL facility utilizing nonlinear compression of an Yb-amplifier chain.	O. Akcaalan , P. Balla , T. Binhammer , J. Darvill , M. Frede , U. Grosse-Wortmann , I. Hartl , C. M. Heyl , C. Li , B. Manschwetus , C. Mohr , J. Müller , F. Pressacco , O. Puncken , N. Schirmel , M. Seidel , A. Swiderski , H. Tavakol , C. Vidoli , L. Winkelmann	Oral
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FWD	146	Upconversion-assisted Er-doped fluoride fibre laser at 2.8 μ m directly diode-pumped at \sim 1.5 μ m	Radha Pattnaik , Viktor Fromzel , Jun Zhang , Mark Dubinskii	Oral
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