

67th ICFA
Advanced
Beam Dynamics
Workshop
FLS 2023

Future Light Sources 2023

Scientific Program



Monday, August 28

MO1L Invited Plenary | 08:30–10:30 | Coronado

- MO1L1** **EuPRAXIA: The First FEL User Facility Driven by a Plasma Accelerator**
Ralph Wolfgang Assmann – Deutsches Elektronen-Synchrotron
- MO1L2** **Free-electron Light Interactions in Nanophotonics**
Charles Roques-Carmes – Stanford University
- MO1L3** **Production and Characterization of Hard X-rays Beyond 25 keV**
Ye Chen – Deutsches Elektronen-Synchrotron
- MO1L4** **The Challenges and Benefits of Increased Application of Permanent Magnets to Future Light Sources**
Joel Chavanne – European Synchrotron Radiation Facility

MO2L Invited Plenary | 11:00–12:30 | Coronado

- MO2L1** **Future of the Multi-bend Achromat**
Pantaleo Raimondi – European Synchrotron Radiation Facility
- MO2L2** **Storage Ring-based Steady State Microbunching**
Alex Chao – Tsinghua University in Beijing
- MO2L3** **Review of Harmonic Cavities in Fourth-generation Storage Rings**
Francis Jamshyd Cullinan – MAX IV Laboratory Lund University

MO3B Working Group B: Storage Ring Light Sources | 14:00–16:00 | Coronado

- MO3B1** **Obtaining Picosecond X-ray Pulses on 4th Generation Synchrotron Light Sources**
Xiaobiao Huang – SLAC National Accelerator Laboratory
- MO3B2** **Beam Dynamics using Harmonic Cavities with High Current per Bunch**
Alexis Gamelin – Synchrotron Soleil
- MO3B3** **Bunch-lengthening RF System Using Active Normal-conducting Cavities**
Naoto Yamamoto – High Energy Accelerator Research Organization Accelerator Laboratory
- MO3B4** **Generating High Repetition Rate X-ray Attosecond Pulses in SAPS**
Weihang Liu – Institute of High Energy Physics China Spallation Neutron Source

MO3A Working Group A: Linac-based Light Sources | 14:00–16:00 | Orion

- MO3A1** **Progress on SHINE Machine**
Dong Wang – Shanghai Institute of Applied Physics
- MO3A2** **Status and Perspectives for the Swiss Free-Electron Laser (SwissFEL)**
Thomas Schietinger – Paul Scherrer Institut
- MO3A3** **Status of the LCLS-II Superconducting Linac**
Daniel Gonnella – SLAC National Accelerator Laboratory
- MO3A4** **European XFEL Status Overview**
Matthias Scholz – Deutsches Elektronen-Synchrotron

- MO3A5 FLASH: Status and Upgrade**
Mathias Vogt – Deutsches Elektronen-Synchrotron
- MO3A6 Recent status of PAL-XFEL**
MyungHoon Cho – Pohang Accelerator Laboratory
- MO3A7 Present Status of SACLA and Plans for Future Upgrades**
Takahiro Inagaki – RIKEN SPring-8 Center
- MO3A8 FERMI FEL Upgrade Plans, an Overview**
Simone Di Mitri – Elettra-Sincrotrone Trieste S.C.p.A.
- MO3A9 Commissioning Progress and Advanced FEL Experiments at the SXFEL Facility**
Chao Feng – Shanghai Advanced Research Institute Chinese Academy of Sciences

MO4B Working Group B: Storage Ring Light Sources | 16:30–18:00 | Coronado

- MO4B1 A Review on Injection Schemes**
Masamitsu Aiba – Paul Scherrer Institut
- MO4B2 The Plasma Injector for PETRA IV: Conceptual Design Report**
Alberto Martinez de la Ossa – Deutsches Elektronen-Synchrotron
- MO4B3 Development of a Pulsed Injection Stripline for Diamond-II**
Richard Fielder – Diamond Light Source Ltd

MO4C Working Group C: Compact Light Sources | 16:30–18:00 | Orion

- MO4C1 Ultra-bright Coherent Undulator Radiation Driven by Dielectric Laser Accelerator**
Yen-Chieh Huang – National Tsing Hua University Institute of Photonics Technology
- MO4C2 Development of a Compact Light Source Using a Two-beam-acceleration Technique**
Philippe Regis-Guy Piot – Northern Illinois University Department of Physics
- MO4C3 Generation of GeV Photon Energy at European X-Ray Free Electron Laser**
Illya Drebot – Istituto Nazionale di Fisica Nucleare Sezione di Milano

Tuesday, August 29

TU1C Working Group C: Compact Light Sources | 08:30–10:30 | Coronado

- TU1C1 An Efficient Optimisation of a Burst Mode-Operated Fabry-Perot Cavity for Inverse Compton Scattering Sources**
Vlad Musat – European Organization for Nuclear Research Beams Department (BE)
- TU1C2 Evolution of the Inverse Compton Scattering X-ray Source of the ELSA Accelerator**
Abel Pires – Commissariat à l'Energie Atomique et aux Energies Alternatives CEA DAM Ile de France
- TU1C3 A Compton Light Source Based on Counter Propagating Direct Laser Acceleration Channels**
Ishay Pomerantz – Tel Aviv University School of Physics and Astronomy
- TU1C4 The CXFEL Project at Arizona State University**
William Graves – Arizona State University

TU1B Working Group B: Storage Ring Light Sources | 08:30–10:30 | Orion

- TU1B1 A Highly Competitive Non-Standard Lattice for a 4th Generation Light Source With Metrology and Timing Capabilities**
Paul Goslawski – Helmholtz-Zentrum Berlin für Materialien und Energie GmbH
Elektronen-Speicherring BESSY II
- TU1B2 Low-alpha Storage Ring Design for Steady-State Microbunching to Generate EUV Radiation**
Zhilong Pan – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics
- TU1B3 Nonlinear Optics From Hybrid Dispersive Orbits**
Yongjun Li – Brookhaven National Laboratory
- TU1B4 Minimizing the Fluctuation of Resonance Driving Terms for Analyzing and Optimizing the Storage Ring Dynamic Aperture**
Zhenghe Bai – University of Science and Technology of China National Synchrotron Radiation Laboratory

TU2A Working Group A: Linac-based Light Sources | 11:00–12:30 | Coronado

- TU2A1 Coherent Free-electron Laser Pulses: The User Perspective**
Giovanni De Ninno – Elettra-Sincrotrone Trieste S.C.p.A.
- TU2A2 Single Longitudinal Mode Generation in Slippage-dominated, Tapered-undulator SASE Soft X-ray FELs**
Dinh Cong Nguyen – xLight Incorporated
- TU2A3 Opportunities and Challenges of the Hard X-ray Self-seeding System at the European XFEL**
Shan Liu – Deutsches Elektronen-Synchrotron MPY
- TU2A4 A Low-loss 14 m Hard X-ray Bragg-reflecting Cavity, Experiments and Analysis**
Rachel Anne Margraf – Stanford University

TU3D Working Group D: Key Technologies | 14:00–16:00 | Coronado

- TU3D1 Developments in SRF Technology for Light Source Applications**
Daniel Gonnella – SLAC National Accelerator Laboratory
- TU3D2 Highly Reliable RF Power Sources for Improvement of the Accelerator Availability**
Marcus Lau – TRUMPF Huettinger GmbH
- TU3D3 Application of Cryo-copper Accelerating Structures Towards Future Light Sources**
Emilio Alessandro Nanni – SLAC National Accelerator Laboratory
- TU3D4 Compact HOM-damped RF Cavity for a Next Generation Light Source**
Hiroyasu Ego - High Energy Accelerator Research Organization
- TU3D5 Electron RF Injectors for Next Generation FELs**
Boris Leonidovich Militsyn – Science and Technology Facilities Council Daresbury Laboratory Accelerator Science and Technology Centre

TU3B Working Group B: Storage Ring Light Sources | 14:00–16:00 | Orion

- TU3B1 Machine Learning Applications for Performance Improvement and Developing Future Storage Ring Light Sources**
Simon Christian Leemann – Lawrence Berkeley National Laboratory Accelerator Technology & Applied Physics
- TU3B2 Recent Developments of the Toolkit for Simulated Commissioning**
Thorsten Hellert – Lawrence Berkeley National Laboratory
- TU3B3 Pyapas: A New Framework for High Level Application Development at HEPS**
Xiaohan Lu – Institute of High Energy Physics China Spallation Neutron Source
- TU3B4 Use of Automated Commissioning Simulations for Error Tolerance Evaluation for the Advanced Photon Source Upgrade**
Vadim Sajaev – Argonne National Laboratory Advanced Photon Source

TU4P Poster Session | 16:00–18:00 | Coronado

- TU4P01 Simulation Studies of Producing Attosecond-terawatt X-ray FEL Pulses Using Irregularly Spaced Current Peaks at SwissFEL**
Guanglei Wang – Paul Scherrer Institut
- TU4P02 Measurements of Dipole and Quadrupole Wakefields From Corrugated Structures at SwissFEL**
Philipp Dijkstal – Paul Scherrer Institut
- TU4P03 High-repetition-rate Seeded Free-electron Laser Enhanced by Self-modulation**
Jiawei Yan – European XFEL GmbH
- TU4P04 Ultrafast FEL Generation with Optical Beat Note**
Yaozong Xiao – Shanghai Institute of Applied Physics
- TU4P05 Design of the Test Platform for High Current VHF Electron Gun**
Zipeng Liu – Shanghai Institute of Applied Physics
- TU4P06 Generating High-Power, Frequency Tunable Coherent THz Pulse in an X-ray Free-Electron Laser for THz Pump and X-ray Probe Experiments**
Kaiqing Zhang – Shanghai Synchrotron Radiation Facility Shanghai Advanced Research Institute
- TU4P07 Design of the Beam Distribution System of SHINE**
Si Chen – Shanghai Synchrotron Radiation Facility Shanghai Advanced Research Institute
- TU4P08 Design and Commissioning of the Beam Switchyard for the SXFEL-UF**
Si Chen – Shanghai Synchrotron Radiation Facility Shanghai Advanced Research Institute
- TU4P09 Beam Compression and Suppression of Coherent Synchrotron Radiation Effect in FODO Arc**
Xiuji Chen – ShanghaiTech University School of Physical Science and Technology
- TU4P11 Intrinsic Mono-chromatic Emission of X and Gamma-rays in Symmetric Electron-photon Beam Collisions**
Illya Drebot – Istituto Nazionale di Fisica Nucleare Sezione di Milano

- TU4P12 Injection into XFELs, a Review of Trends and Challenges**
Can Davut – Cockcroft Institute The University of Manchester Physics and Astronomy Department
- TU4P13 An Introduction to the UK XFEL Conceptual Design and Options Analysis**
David Dunning – Science and Technology Facilities Council Daresbury Laboratory Accelerator Science and Technology Centre
- TU4P14 Cavity-based XFEL R&D Project**
Kwang-Je Kim – Argonne National Laboratory Advanced Photon Source
- TU4P15 Two-color XFEL Generation Using Phase Shifters of Undulators**
MyungHoon Cho – Pohang Accelerator Laboratory
- TU4P16 Transverse Optics-based Control of the Microbunching Instability**
Alexander Darius Brynes – Elettra-Sincrotrone Trieste S.C.p.A.
- TU4P17 Non-destructive Vertical Halo-monitors on the ESRF Electron Beam**
Kees Bertus Scheidt – European Synchrotron Radiation Facility
- TU4P18 Nonlinear Dynamics Measurements at the EBS Storage Ring**
Nicola Carmignani – European Synchrotron Radiation Facility
- TU4P19 Evolution of Equilibrium Parameters Ramp Including Collective Effects in the Diamond-II Booster**
Riyasat Husain – Diamond Light Source Ltd
- TU4P20 Validation of Magnet Strength Limits From Commissioning Simulations for the Diamond-II Storage Ring**
Hung-Chun Chao – Diamond Light Source Ltd
- TU4P21 Frequency Spread and Beam-Ion Instabilities in SOLEIL II**
Vadim Gubaidulin – Synchrotron Soleil
- TU4P23 Knot APPLE X Undulators for SLS 2.0**
Thomas Schmidt – Paul Scherrer Institute Swiss Light Source
- TU4P24 New Compact Modular In-vacuum Undulators for SLS2.0**
Thomas Schmidt – Paul Scherrer Institute Swiss Light Source
- TU4P25 SLS 2.0 Machine Protection**
Felix Armbrorst – Paul Scherrer Institut
- TU4P26 Special Operational Modes for SLS 2.0**
Jonas Kallestrup – Paul Scherrer Institut
- TU4P27 Progress of the HEPs Accelerator Construction and Linac Commissioning**
Cai Meng – Chinese Academy of Sciences Institute of High Energy Physics
- TU4P28 Laser-Electron Phase Locking in a Steady-State Microbunching Storage Ring**
Xiujie Deng – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics
- TU4P29 Microbunching Radiation Fluctuation and its Applications**
Xiujie Deng – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics
- TU4P30 Quasi-Steady-State Microbunching**
Xiujie Deng – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics

- TU4P31 A Recursive Model for Laser-Electron-Radiation Interaction in Insertion Section of SSMB Storage Ring Based on Transverse-Longitudinal Coupling Scheme**
Cheng-Ying Tsai – Huazhong University of Science and Technology School of Electrical and Electronic Engineering
- TU4P33 An Inverse-Compton Scattering Simulation Module for RF-Track**
Andrea Latina – European Organization for Nuclear Research Beams Department (BE)
- TU4P34 Recent Developments of the cSTART Project**
Markus Schwarz – Karlsruhe Institute of Technology
- TU4P35 A Compact Light Source Based on Coherent Thomson Scattering of Density Modulated Electron Bunch**
Si Chen – Shanghai Synchrotron Radiation Facility Shanghai Advanced Research Institute
- TU4P36 Effect of Pre-bunched Relativistic Electron Beams on the Output Power in a Two-stream Free-electron Laser**
Nader Mahdizadeh – Islamic Azad University Sabzevar Branch
- TU4P37 Reduction of Energy Jitter and Energy Spread of High-Charge Electron Bunches from Laser Plasma Accelerators**
Xueyan Shi – Chinese Academy of Sciences Institute of High Energy Physics
- TU4P38 Burst Mode Operation in the Smart*Light Inverse Compton Scattering X-Ray Source**
Rick van den Berg – Technische Universiteit Eindhoven Department of Applied Physics

Wednesday, August 30

WE1L Invited Plenary | 08:30–10:30 | Coronado

- WE1L1 Status and Future of XFEL Source Developments**
Sven Reiche – Paul Scherrer Institut
- WE1L2 Progress of Cavity-based X-ray Free-electron Lasers**
Zhirong Huang – SLAC National Accelerator Laboratory
- WE1L3 Enabling Technology Towards Multiline Compact XFELs**
John Byrd – Argonne National Laboratory
- WE1L4 Operating Liquid MetalJet X-ray Sources for Materials Research**
Mirko Boin – Helmholtz-Zentrum Berlin für Materialien und Energie

WE2A Working Group A: Linac-based Light Sources | 11:00–12:30 | Coronado

- WE2A1 Modified Maxwell-Bloch Equations for X-ray Amplified Spontaneous Emission in X-ray Lasers**
Kwang-Je Kim – Argonne National Laboratory Advanced Photon Source
- WE2A2 An Analytical Method for Longitudinal Phase Space Backtracking**
Nicholas Sigmund Sudar – SLAC National Accelerator Laboratory LCLS Department
- WE2A3 A Wiggler-based THz Source at LCLS-II and Studies for a 150-m THz Transport Line for Pump-probe Experiments**
Meredith Henstridge – SLAC National Accelerator Laboratory

WE2A4 Scaling of Beam Collective Effects with Bunch Charge in the Compact Light Free-electron Laser
Simone Di Mitri – Elettra-Sincrotrone Trieste S.C.p.A.

WE2C Working Group C: Compact Light Sources | 11:00–12:30 | Orion

WE2C1 Population Inversion X-ray Laser Oscillator at LCLS and LCLS-II
Aliaksei Halavanau – SLAC National Accelerator Laboratory

WE2C2 Harmonic Generation from keV-electron-excited Nano-grating
Yen-Chieh Huang – National Tsing Hua University Institute of Photonics Technology

WE3A Working Group A: Linac-based Light Sources | 14:00–16:00 | Coronado

WE3A1 High Pulse Rate Experiments at the European X-ray Free-electron Laser
Romain Letrun – European XFEL GmbH

WE3A2 Beam on Demand for Superconducting Based Free-electron Lasers
Zhen Zhang – SLAC National Accelerator Laboratory

WE3A3 Multi-FELs Driven by a Common Electron Beam
Cheng-Ying Tsai – Huazhong University of Science and Technology School of Electrical and Electronic Engineering

WE3A4 Energy Recovery Linac Based Multi-pointing Fully Coherent Light Source
Zhen Wang – Shanghai Advanced Research Institute Chinese Academy of Sciences

WE3A5 Development of Multi-alkali Antimonides Photocathodes for High-brightness Photoinjectors
Sandeep Kumar Mohanty – Deutsches Elektronen-Synchrotron DESY at Zeuthen

WE3A6 A High Brightness Travelling-wave C-Band Photogun for a Brightness Upgrade to Swissfel
Thomas Geoffrey Lucas – Paul Scherrer Institute Large Research Facilities

WE3D Working Group D: Key Technologies | 14:00–16:00 | Orion

WE3D1 Femtosecond Synchronization of Large Scale FELs - Achievements, Limitations and Mitigation Paths
Holger Schlarb – Deutsches Elektronen-Synchrotron

WE3D2 Advanced Electron Beam Diagnostics for FELs
Patrick Krejcik – SLAC National Accelerator Laboratory

WE3D3 Beam Diagnostics for Ultra-low Emittance Storage Rings
Volker Schlott – Paul Scherrer Institut

WE4P Poster Session | 16:00–18:00 | Coronado

WE4P01 Numerical Simulation Studies of Superconducting Afterburner Operation for European XFEL
Christoph Lechner – European XFEL GmbH

WE4P02 High-Duty-Cycle Operations at European XFEL
Matthias Scholz – Deutsches Elektronen-Synchrotron

- WE4P04 Intra-train RF Modulations for Interleaved FEL Beam Delivery at the European XFEL**
Bolko Beutner – Deutsches Elektronen-Synchrotron MPY
- WE4P05 Self-seeded Free-electron Lasers with Orbital Angular Momentum**
Jiawei Yan – European XFEL GmbH
- WE4P06 Bayesian Optimization-driven Automated Commissioning of X-ray Free-electron Lasers**
Jiawei Yan – European XFEL GmbH
- WE4P07 Longitudinal Phase Space Diagnostics with Corrugated Structure at the European XFEL**
Philipp Dijkstal – Deutsches Elektronen-Synchrotron
- WE4P08 Longitudinal Phase Space Manipulation Studies for the Generation of Short X-ray FEL Pules at the European XFEL**
Philipp Dijkstal – Deutsches Elektronen-Synchrotron
- WE4P09 Terahertz Radiation and Joule Heating of Corrugated Structure at Shine Facility**
Jun-Jie Guo – Zhangjiang Lab
- WE4P10 Cavity-based X-ray Free-electron Laser Proposal for the SHINE**
Nanshun Huang – Zhangjiang Lab
- WE4P11 Automatic Online Optimization at the SXFEL Facility**
Nanshun Huang – Zhangjiang Lab
- WE4P12 Upgrades of High Level Applications on Shanghai Soft X-ray FEL facility**
Hang Luo – Shanghai Advanced Research Institute Chinese Academy of Sciences
- WE4P13 Physics Design and Beam Dynamics Optimization of the SHINE Accelerator**
Duan Gu – Shanghai Advanced Research Institute Chinese Academy of Sciences
- WE4P14 Progress of the X-Ray Self-seeding Monochromator at the SHINE**
Tao Liu – Shanghai Advanced Research Institute Chinese Academy of Sciences
- WE4P15 Multi-color FEL Generation Through a Chirped Electron Beam Bunch Train**
Zheng Qi – Shanghai Advanced Research Institute Chinese Academy of Sciences
- WE4P17 Design Concept for a High Repetition Rate VUV FEL**
Pavel Evtushenko – Helmholtz-Zentrum Dresden-Rossendorf Institute of Radiation Physics Radiation Source ELBE
- WE4P18 Preliminary Design of Higher-Order Achromat Lattice for the Upgrade of the Taiwan Photon Source**
Nuan-Ya Huang – National Synchrotron Radiation Research Center
- WE4P19 Study of Orbit Correction by Machine Learning at the TPS Storage Ring**
Mau-Sen Chiu – National Synchrotron Radiation Research Center
- WE4P20 Alignment Results of Tandem EPU's at the Taiwan Photon Source**
Yi-Chih Liu – National Synchrotron Radiation Research Center
- WE4P21 Some Beam Dynamic Issues in the HALF Storage Ring**
Jingyu Tang – University of Science and Technology of China School of Nuclear Science and Technology
- WE4P22 Optics Measurements Based on 3D-Driven Beam Excitation in PETRA III**
Lukas Malina – Deutsches Elektronen-Synchrotron MPY
- WE4P23 Python Library for Simulated Commissioning of Storage-ring Accelerators**
Lukas Malina – Deutsches Elektronen-Synchrotron MPY

- WE4P24 Optics for an Electron Cooler for the EIC Based on an Electron Storage Ring**
Jorg Kewisch – Brookhaven National Laboratory Collider-Accelerator Department
- WE4P25 Nonlinear Dependence of Storage Ring Emittance on Chromaticity**
Jingyi Tang – SLAC National Accelerator Laboratory
- WE4P26 High Average Power EUV from FEL Oscillator in Storage Ring**
Changchao He – Shanghai Institute of Applied Physics
- WE4P27 Simulation Study of S-Bend Photocathode Gun for 4th Generation Storage Ring in Korea**
Woo Jun Byeon – Pohang Accelerator Laboratory
- WE4P29 Design Study of a Booster Ring for a Fourth-Generation Storage Ring Light Source**
Chong Shik Park – Korea University Sejong Campus
- WE4P31 Deterministic Approach to the Lattice Design of BESSY III**
Bettina Christa Kuske – Helmholtz-Zentrum Berlin für Materialien und Energie
- WE4P32 Quasi-Invariants Based Technique to Increase Dynamical Aperture**
Jorge Fuentes – Universidad Nacional Autónoma de México Instituto de Ciencias Físicas
- WE4P33 Design of 166.6 MHz HOM Damped Copper Cavity for the Southern Advanced Photon Source**
Junyu Zhu – Chinese Academy of Sciences Institute of High Energy Physics
- WE4P34 Cathode-to-injection Simulation of the Advanced Photon Source II nac**
Philippe Regis-Guy Piot – Northern Illinois University Department of Physics
- WE4P36 The Cryogenic Undulator Upgrade Programme at Diamond Light Source**
Zena Patel – Diamond Light Source Ltd
- WE4P37 Development of Laser Interferometer for Hall Probe Alignment and Measurement of Undulator**
Saif Mohd Khan – Devi Ahilya University School of Physics
- WE4P38 Pulsed Wire Measurement of 20 mm Period Hybrid Undulator and Effects of Dispersion**
Saif Mohd Khan – Devi Ahilya University School of Physics

Thursday, August 31

TH1D Working Group D: Key Technologies | 08:30–10:30 | Coronado

- TH1D1 Application of Superconducting Undulator Technology for Hard X-ray Production at European XFEL**
Johann Eduardo Baader – European XFEL GmbH
- TH1D2 Bulk Superconductor and its Application for Insertion Device**
Toshiteru Kii – Kyoto University Institute of Advanced Energy
- TH1D3 SCU Development at the LCLS for Future FELs**
Patrick Krejčík – SLAC National Accelerator Laboratory
- TH1D4 Bi-periodic Undulator: Innovative Insertion Device for SOLEIL II**
Angela Potet – Synchrotron Soleil

TH2A Working Group A: Linac-based Light Sources | 11:00–12:30 | Orion

- TH2A0 Short Free-electron Laser Pulses: The User Perspective**
Christoph Bostedt – Paul Scherrer Institut
- TH2A1 Dechirper System for Fresh-slice Applications at the European XFEL**
Weilun Qin – Deutsches Elektronen-Synchrotron
- TH2A2 Generation of Intense Attosecond Pulses at the European XFEL**
Jiawei Yan – European XFEL GmbH
- TH2A3 Progress on Fresh-slice Multi-stage Amplification at SwissFEL**
Guanglei Wang – Paul Scherrer Institut

TH2C Working Group C: Compact Light Sources | 11:00–12:30 | Coronado

- TH2C1 The COXINEL Seeded Free Electron Laser Driven by the Laser Plasma Accelerator at HZDR**
Marie-Emmanuelle Couprie – Synchrotron Soleil
- TH2C2 Development of Laser-Driven Plasma Accelerator Undulator Radiation Source at ELI-Beamlines**
Alexander Yu. Molodtsov – Czech Republic Academy of Sciences Institute of Physics
- TH2C3 A Novel X-ray Free-electron Laser Scheme Based on Cascaded Laser Wakefield Accelerators**
Fei Li – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics

TH3B Working Group B: Storage Ring Light Sources | 14:00–16:00 | Coronado

- TH3B1 Development of the In-vacuum APPLE II Undulators at HZB**
Atoosa Meseck – Helmholtz-Zentrum Berlin für Materialien und Energie GmbH Elektronen-Speicherring BESSY II
- TH3B2 Novel X-Ray Beam Position Monitor for Coherent Soft X-Ray Beamlines**
Boris Podobedov – Brookhaven National Laboratory National Synchrotron Light Source II
- TH3B3 Transverse Gradient Undulator for a Storage Ring X-Ray Free-Electron Laser Oscillator**
Kwang-Je Kim – Argonne National Laboratory Advanced Photon Source
- TH3B4 Generation of Multi X-Ray Pulses with Tunable Separation in Electron Storage Rings**
Haisheng Xu – Chinese Academy of Sciences Institute of High Energy Physics

TH3D Working Group D: Key Technologies | 14:00–16:00 | Orion

- TH3D2 Beam losses and radiation studies for advanced operation schemes at the European XFEL**
Shan Liu – Deutsches Elektronen-Synchrotron MPY
- TH3D3 How Can Machine Learning Help Future Light Sources?**
Andrea Santamaria Garcia – Karlsruhe Institute of Technology

TH3D4 DFCSR: A Fast Calculation of 2D/3D Coherent Synchrotron Radiation in Relativistic Beams

Jingyi Tang – SLAC National Accelerator Laboratory

TH3D5 Building Digital Models with thor_scsi: An Evolutionary Approach

Pierre Schnizer – Helmholtz-Zentrum Berlin für Materialien und Energie GmbH Elektronen-Speicherring BESSY II

TH4A Working Group A: Linac-based Light Sources | 16:30–18:00 | Coronado

TH4A1 Progress Towards X-ray Free-electron Laser Driven by Plasma Wakefield Accelerator at SXFEL

Fei Li – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics

TH4A2 A Compact Inverse Compton Scattering Source Based on X-band Technology and Cavity-enhanced High Average Power Ultrafast Lasers

Andrea Latina – European Organization for Nuclear Research Beams Department (BE)

TH4A3 An Active Q-switched X-ray Regenerative Amplifier Free-electron Lasers

Jingyi Tang – SLAC National Accelerator Laboratory

TH4A4 A Proposal for Generating Fully Coherent X-ray FEL with Femtosecond Pulse Based on Fresh-Slice

Zhangfeng Gao – Shanghai Synchrotron Radiation Facility Shanghai Advanced Research Institute

TH4D Working Group D: Key Technologies | 16:30–18:00 | Orion

TH4D1 Overview and Challenges of the Vacuum Systems of Diffraction Limited Storage Rings

Marek Jerzy Grabski – MAX IV Laboratory Lund University

TH4D2 An Ultra-high Vacuum, High-gradient RF Gun and Advanced Photocathode Studies

Renkai Li – Tsinghua University in Beijing Accelerator Laboratory Department of Engineering Physics

TH4D3 Status of Advanced Photocathodes for SRF Guns

Rong Xiang – Helmholtz-Zentrum Dresden-Rossendorf Institute of Radiation Physics Radiation Source ELBE

Friday, September 1

FR1M Working Group Summary | 08:30–10:30 | Coronado

FR2M Working Group Summary | 11:00–12:30 | Coronado