

# POSTER SESSIONS

## Instructions

- The poster sessions are held at Rose Hall and Camelia Hall where the exhibition is held.
- The poster panel supports an A0-size poster (portrait). Pins will be provided.
- The poster contributors are recommend to post their posters for an extended period:
  - Contributors to the session I : Mon. 13:00 – Tue. 18:15
  - Contributors to the session II : Wed. 10:50 – Fri. 10:40
- Student poster prize will be awarded to 5 student contributors with excellent posters. (prize money 200,000 KRW for each winner)

## Poster session I 13:35-15:00, Sep. 20 (Tue.)

### Lasers

1. The Apollon laser facility commissioning: operational aspects and lessons learned  
Y. Ayoul, LULI
2. The construction progress of 2 PW laser system based on Ti:Sapphire at Peking University  
Yixing Geng, Peking University
3. Zetawatt Equivalent Ultrashort-pulse laser System (ZEUS) – A laser configured for the exploration of relativistic and QED physics  
John Nees, University of Michigan - ZEUS
4. Application of XPW temporal filter at the front end of Gemini laser system  
Oleg Chekhlov, Central Laser Facility, STFC Rutherford Appleton Lab
5. Completely passive coherent combining with dual Sagnac Interferometer structure  
Kento Watanabe, KPSI, National Institutes for Quantum Science and Technology
6. Cross-Thin-Slab Amplifier for High Peak and Average Power Ti:Sa Laser Systems  
Vladimir Chvykov, Colorado State University
7. Amplitude roadmap to high average power PW laser  
Falcoz Franck, Amplitude
8. Large-aperture, liquid-cooled glass amplifier development at PHELIX  
Bernhard Zielbauer, GSI Helmholtzzentrum für Schwerionenforschung GmbH
9. Roadmap at Amplitude of 0.1 Hz kJ-class laser for Shock applications  
S. Branly, Amplitude
10. High Average Power Ti:Sa Amplifier for High Energy High Repetition Rate Laser Plasma Accelerator  
Olivier Chalus, Thales, France
11. Estimating noise impact on a stretcher-compressor sequence with the Wigner matrix formalism  
Coic Herve, CEA-CESTA
12. Multi-pass Regenerative Stretcher to Produce Simultaneously Spatially and Temporally Chirped Pulses  
Kyle Chesnut, UC Irvine
13. Picosecond Cascaded Optical Parametric Amplification  
Patrick K Rambo, Sandia National Laboratories

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## Applications

14. Absorption of ultrahigh contrast, femtosecond, relativistic laser pulses in solids  
Chandrasekaran Aparajit, Tata Institute of Fundamental Research
  15. Direct observation of transverse and axial gigantic mega-gauss self-induced magnetic fields generated in intense laser matter interactions  
Anandam Choudhary, Tata Institute of Fundamental Research
  16. Transient (kHz) gas jet characterization for laser plasma acceleration optimization  
Ivan Doudet, Phasics
  17. X-ray spectroscopy for Si nanowire plasma irradiated at relativistic intensities  
Jang Hyeob Sohn, Dept. of Physics and Photon Science, GIST
  18. Time-resolved two-dimensional velocity mapping of the hot-dense relativistic-laser-produced plasma  
Amit D. Lad, Tata Institute of Fundamental Research
  19. High-energy-density plasma in femtosecond-laser-irradiated nanowire array targets for nuclear reactions  
Defeng Kong, Peking university
  20. Highly efficient relativistic high-order harmonic generation by plasma density control  
Hyeok Yun, Advanced Photonics Research Institute, GIST
  21. High-energy THz emission from laser-accelerated electrons  
Taegy Pak, GIST
  22. All-optical measurement of recombination time delay on XUV generation  
Dong Hyuk Ko, University of Ottawa
  23. Polarization control of attosecond pulses from nanofolios using constant magnetic field  
Rishat Zagidullin, Skolkovo Institute of Science and Technology
  24. Parametric study of high harmonic radiation generated through coherent wake emission  
Hyeon Kim, Center for Relativistic Laser Science, IBS
  25. Systematic transmittance measurement of a petawatt laser passing through nanometer targets  
Yinren Shou, Center for Relativistic Laser Science, IBS
  26. High-energy betatron source driven by a 4-PW laser and its applications to non-destructive imaging  
Calin I. Hojbota, Center for Relativistic Laser Science, IBS
  27. Guiding of few-cycle pulses in discharge capillaries  
Zsolt Léczi, ELI-ALPS, ELI-HU Nonprofit Ltd.
  28. High Harmonic Generation Using a Liquid Target  
Yang Hwan Kim, Center for Relativistic Laser Science, IBS
  29. Energy enhancement of laser-driven ions by radiation reaction and Breit-Wheeler pair production in the ultra-relativistic Breakout-Afterburner regime  
Shikha Bhadoria, University of Gothenburg
  30. Direct Laser Acceleration Unveiled  
Itamar Cohen, The School of Physics and Astronomy, Tel Aviv University
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# POSTER SESSIONS

## Poster session II 13:35-15:00, Sep. 21 (Wed.)

### Lasers

- 31.** Machine Learning for Wavefront Sensing  
Sunny Howard, University of Oxford
- 32.** Single-shot wavefront characterization of high-energy focal spots in the OMEGA target chamber using a phase diversity grating  
S.-W. Bahk, University of Rochester
- 33.** Spatio-temporal pulse characterization at the Draco-PW laser for laser-plasma accelerator experiments with electrons and protons  
Thomas Püschel, Helmholtz-Zentrum Dresden-Rossendorf, Institute of Radiation Physics
- 34.** Spectrally-resolved wavefront sensor for electric field analysis of broadband femtosecond lasers  
Xavier Levecq, Imagine Optic
- 35.** Towards complete control of adaptive optics correction of high repetition rate lasers at full energy regime  
Guillaume Beaugrand, Imagine Optic
- 36.** Cleaning process development of diffraction gratings for pulse compressor  
Jong Eun Lee, Center for Relativistic Laser Science, IBS
- 37.** Advantages of out-of-plane pulse compression gratings  
Turan Erdogan, Plymouth Grating Laboratory, Inc.
- 38.** Analysis of Higher-Order Phase Distortions from a Six-Grating Compressor for Exawatt-class CPJBA  
Kyle Chesnut, UC Irvine
- 39.** Post-compressor on-shot focal spot correction at PHELIX using an ultra-compact wavefront sensor  
Jonas B. Ohland, GSI Helmholtzzentrum für Schwerionenforschung
- 40.** Foci of petawatt-class space-time entangled beams  
Eric Nelson, UC Irvine
- 41.** Modal reconstruction of Spatio-Temporal-Couplings for High Power Laser Systems  
Jannik Esslinger, LMU Munich
- 42.** A new OPCPA petawatt class beamline for Vulcan laser facility  
Nicholas Stuart, Central Laser Facility
- 43.** Concepts for High Average Power Ti:Sa Pulse Compressors  
Christian Werle, DESY

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## Applications

- 44.** Laser wakefield acceleration with circular laser polarization  
Mohammad Rezaei Pandari, Center for Relativistic Laser Science, IBS
- 45.** Detection of focused laser-accelerated particle bunches using acoustic traces: The I-BEAT 3D detector  
Sonja Gerlach, LMU München
- 46.** Calibration of Micro Channel Plate detector in a Thomson Spectrometer for Protons and Deuterons with Energies below 1 MeV  
Parvin Varmazyar, University of Szeged
- 47.** Generation of low-emittance MeV-class proton beam by few-cycle relativistic intense laser pulse  
Prashant Singh, National Laser-induced Transmutation Laboratory, University of Szeged
- 48.** Proton acceleration with few cycle relativistic laser pulses  
Sargis Ter-Avetisyan, University of Szeged
- 49.** Intense high-Z ion beam generation from layered-foil targets irradiated by an ultra-intense laser pulse  
Ha-Na Kim, Center for Ultrafast Radiation Science, KAERI
- 50.** Thermally Modified Rayleigh-Taylor Instability and Electron Surface Oscillations in Radiation Pressure Ion Acceleration  
Xuezhi Wu, Peking University
- 51.** Development of high repetition rate target systems for ion acceleration with laser  
Miklos Füle, National Laser-Initiated Transmutation Laboratory, University of Szeged
- 52.** A new neutron-detection system for  $2\text{H}+2\text{H}$ -fusion neutrons created by laser-accelerated deuterons  
Laszlo Stuhl, Center for Exotic Nuclear Studies, IBS
- 53.** Towards Probing Pair Production in the Non-Perturbative Regime at CALA  
Felipe Cezar Salgado, Helmholtz-Institut Jena / Friedrich-Schiller-Universität Jena
- 54.** Optimal Configuration of Electric Fields for Schwinger Pair Production  
Sang Pyo Kim, Kunsan National University
- 55.** Density filamentation in ultra-relativistic plasma beams by the nonuniform distribution of the Lorenz factors  
Chang-Mo Ryu, Center for Relativistic Laser Science, IBS
- 56.** Vacuum Birefringence in a Supercritical Magnetic Field and a Subcritical Electric Field  
Chul Min Kim, CoReLS, IBS & APRI, GIST
- 57.** Measurement of the Kerr effect in air with the pilot DeLLight experiment  
Adrien Kraych, IJCLab, Université Paris-Saclay, CNRS
- 58.** Effects of valence-shell ionization on relativistic laser propagation for LWFA with multi-PW laser pulses  
Hyung Taek Kim, Advanced Photonics Research Institute, GIST