

Submission Deadline Extended: 21 January 2021

<http://opicon.jp/>

<https://www.ile.osaka-u.ac.jp/heds2021/>



OBJECTIVE

Recent progress in high-power laser technology extends the research field of high energy density sciences to an academic expanse, and “Laser Astrophysics” is one of the fields. “Laser Astrophysics”, which combines the different fields of “astrophysics” and “power-laser engineering” with the keyword “plasma”, is an interdisciplinary academic field. We recognize it is quite useful to have a conference that promotes international and interdisciplinary collaborations in scientific research using high-power lasers and overviews the present status and prospects of relevant fields. Thus, we propose to have an annual international conference for the high energy density sciences, primarily focusing on Laser Astrophysics. This conference aims to discuss a definite theme together with distinguished overseas scientists with experiences on high-power lasers, high energy density sciences, and astrophysics to encourage the number of foremost participants with related fields.

INTERNATIONAL CONFERENCE ON HIGH ENERGY DENSITY SCIENCES 2021 (HEDS2021) is organized to share information on high energy density sciences, Laser Astrophysics, and related technologies. The conference will be held on April 19- 21, 2021, both online and in-person, with the sponsorship of the Laser Society of Japan, JSPS Core-to-Core Program, in cooperation with several academic societies and associations.

SCOPE

HEDS2021 covers the high energy density sciences with high power lasers and its application in the following major topical fields;

- A. Laser Astrophysics
Particle acceleration, Collisionless shock, Magnetic reconnection, Magnetic field turbulent, Emission and scattering of electromagnetic waves, Planetary physics, Astrophysics
- B. High Energy Density Sciences
Relativistic laser-matter interactions, Non-equilibrium plasma, Magneto-hydrodynamic instability
- C. Diagnostics
High-energy particle detectors, Ultra-fast imaging, Machine learning, X-ray free electron laser

COMMITTEE MEMBERS

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Youichi Sakawa (Osaka Univ.)

Ryosuke Kodama (Osaka Univ.)

Steering Committee Chair

Takayoshi Sano (Osaka Univ.)

Steering Committee

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REGISTRATION

Registration Fees

	With Presentation	Without Presentation
Conference (General)	¥20,000	¥20,000
(Student, Retiree)	¥10,000	¥0

For student registration, recommendation from his/her supervisor is required.

OPTICS&PHOTONICS International Congress 2021 (OPIC2021) <http://opicon.jp/>

11 international conferences held simultaneously. By registering for this conference, you can participate in all international conferences.

- ALPS - The 10th Advanced Lasers and Photon Sources
- BISC - The 7th Biomedical Imaging and Sensing Conference
- HEDS - International Conference on High Energy Density Science 2021
- ICNN - International Conference on Nano-photonics and Nano-optoelectronics 2021
- IoT-SNAP - IoT Enabling Sensing/Network/AI and Photonics Conference 2021
- LDC - Laser Display and Lighting Conference 2021
- LSSE - Laser Solutions for Space and the Earth 2021
- OMC - The 8th Optical Manipulation Conference and Structured Materials
- OPTM - Optical Technology and Measurement for Industrial Applications 2021
- OWPT - Optical Wireless and Fiber Power Transmission Conference 2021
- XOPT - International Conference on X-ray Optics and Applications 2021

SUBMISSION OF PAPERS

A 300 word abstract form should be submitted through OPIC2021web. If you have anything to ask, please contact to "heds2021@lie.osaka-u.ac.jp". The abstract template will be available through the Web site.

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POSTER SESSION

The author(s) of poster presentations will be informed of the size of bulletin board for displaying summary, figures, tables, etc., when selected as poster papers.

POST DEADLINE PAPERS

A limited number of post deadline papers will be accepted for presentation at post deadline sessions.

OFFICIAL LANGUAGE

The official language of HEDS2021 is English.

PLENARY, INVITED TALKS and FURTHER INFORMATION

The speaker and latest information on the conference will be presented on the Web site,

"<https://www.ile.osaka-u.ac.jp/heds2021/>".

LOCATION OF CONFERENCE SITE

The HEDS2021 takes place online and in-person at Osaka University.



Contact address : heds2021@lie.osaka-u.ac.jp

