

# International Conference on High Energy Density Science 2024 HEDS 2024

Sponsored by  
**Institute of Laser Engineering, Osaka University**

Conference Co-Chair  
**Ryosuke Kodama**

*Osaka University, Japan*



Conference Co-Chair  
**Takayoshi Sano**

*Osaka University, Japan*



We are delighted that you have joined the 12th International Conference on High Energy Density Science (HEDS) within the framework of OPTICS & PHOTONICS International Congress (OPIC).

HEDS covers the high energy density sciences with high-power lasers and their applications. The Primary topic of HEDS 2024 is “Particle Acceleration in Laboratory and Astrophysical Plasmas; Shock, Turbulence, and Magnetic Reconnection”. Particle acceleration is a physical process common to both laboratory and astronomical plasmas. The origin of high-energy cosmic rays is one of the critical issues in astrophysics and has been investigated intensively using numerical simulations. Particle acceleration has also been studied experimentally using such as intense laser experiments.

HEDS 2024 invites scientists worldwide in the fields of “Particle Acceleration in Laboratory and Astrophysical Plasmas,” including experimental and theoretical/numerical works.

We want to promote interdisciplinary discussions by gathering knowledge on particle acceleration physics in various fields to stimulate each other and foster friendships for future collaborations.

HEDS 2024 is co-sponsored by the Institute of Laser Engineering, Osaka University. We hope you enjoy the conference, which is held in person at Yokohama.

## Conference Co-Chairs

**Ryosuke Kodama** *Osaka University, Japan*

**Takayoshi Sano** *Osaka University, Japan*

## Program Committee

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