

Tiny Integrated Laser and Laser Ignition Conference 2024 TILA-LIC 2024

Sponsored by
Micro Solid-State Photonics Association



Conference Chair **Takunori Taira**

RIKEN SPring-8 Center (RSC) / Institute for Molecular Science (IMS)

Conference

Welcome to the 10th Tiny Integrated Laser and Laser Ignition Conference 2024 (TILA-LIC 2024), which is the international forum for discussions on various aspects of the ubiquitous sources and phenomena associated with highly intense laser pulses. TILA-LIC offers to share information on sciences and technologies related to Giant Micro-photonics. “Tiny Integrated Laser (TILA)” means the compact integration of highly intense laser devices and peripheral systems that enables ubiquitous operation of extraordinarily accurate measurements and control of extreme material phases. Here, the word “laser ignition (LI)” originally means the laser induced breakdown ignition, and it also implies the induction of phenomena caused by the irradiation of high-brightness laser pulses until the TILA based material processing, laser driven particle acceleration and the other intense laser applications. Based on the recent photonic innovation called by Giant Micro-photonics, ubiquitous lasers symbolized by TILA that can be operated at everywhere and anytime by everybody can become the door to promote the world to a new generation. The conference will be held at Pacifico Yokohama, Yokohama, Japan, on April 24-26, 2024 with the sponsorship from Laser-Driven Electron-Acceleration Technology Group, RIKEN SPring-8 Center, and Division of Research Innovation and Collaboration, Institute for Molecular Science in cooperation with several academic societies and associations.

After TILA-LIC opening talks, a total of 42+ papers will be presented, consisting of one Keynote, one Tutorial, two Plenary, 12 Invited papers, and 26 Contributed papers. In addition, we organize 4 introduction talks with regarding the TILA related company activity. At the closing remarks, award ceremony will be held at which several papers will be commended for their outstanding achievement. We would like to extend our thanks to all the presenters and participants of TILA-LIC 2024 for their contribution to the success of the conference. We also express our thanks to the endorsement and sponsor groups.

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