

2<sup>nd</sup> TILA Seminar

**“Promise of Tiny Integrated Lasers: from Basic Sciences include Laser Acceleration to Industrial Applications”**

**Time: 12:55-18:20**

**Date: April 22nd, 2024**

**Place: Rm. 201, Institute for Molecular Science, Japan**

Access <<https://www.ims.ac.jp/en/about/campus/access.html>>

Map <<https://www.ims.ac.jp/en/about/campus/shonai.html>>

Sponsor: Micro Solid-State Photonics Association, Japan

Laser-Driven Electron-Acceleration Technology Group, RIKEN SPring-8 Center (RSC), Japan

Division of Research Innovation and Collaboration, Institute for Molecular Science (IMS)

Contact: Y. Ono [ono@ims.ac.jp](mailto:ono@ims.ac.jp), N. Okuhara [norie-okuhara@ims.ac.jp](mailto:norie-okuhara@ims.ac.jp) (Secretary of Taira Group)

**Contents**

12:55-13:00

**1. Opening Remarks**

Takunori Taira (RIKEN / IMS, Japan)

13:00-13:50

**2. "Recent developments in DiPOLE diode-pumped solid-state laser technology at the Central Laser Facility"**

Mariastefania De Vito (The STFC Central Laser Facility, UK)

13:50-14:40

**3. "The LISA laser system which will be launched to detect gravitational waves"**

Thomas Kane (Laser Scientist, USA)

14:40-15:00 Coffee Break

15:00-15:50

**4. "Mechanism study of surface activated bonding for LiNbO<sub>3</sub> and SiC"**

Lihe Zheng (Yunnan University, China)

15:50-16:20

**5. "Tiny Integrated Lasers: Laboratory Introduction"**

Takunori Taira (RIKEN / IMS, Japan)

16:20-18:20 Laboratory Tour (all)

18:40-20:40 (tentative)

Reception at the restaurant (Okazaki)