

## TILA-LIC2025 Program (Room 315 @ Pacifico Yokohama Conference Center, Apr. 23rd, 2025)

Date	Start	End	Session	Presider	Paper No.	Type	First author	Primary affiliation of the first author	Paper title	
2025/4/23	9:00	9:30	TILA-LIC1: Opening & future prospect of TILA	Prof. X. Mateos (Univ. Rovira Virgili)	TILA-LIC1-01	Opening remarks by Conference chair				
	9:30	9:45			TILA-LIC1-02	Oral	Yuichiro Cho	The University of Tokyo, Japan	Application of Tiny Integrated Lasers in Laser-Induced Breakdown Spectroscopy for Future Lunar Missions	
	9:45	10:00			TILA-LIC1-03	Oral	Lihong Liu	National Institute for Materials Science, Japan	Effect of Flux on the Spark-Plasma-Sintering (SPS) of Translucent YVO <sub>4</sub> :Nd <sup>3+</sup> Ceramics: Microstructural Evolution, and Optical Properties	
	10:00	10:15			TILA-LIC1-04	Oral	Taichi Goto	Tohoku University, Japan	Magneto-optically Q-switched microchip laser using magnetic garnet films	
	10:15	10:30			TILA-LIC1-05	Oral	Ryu Yoshizawa	Institute for Molecular Science, Japan	Highly sensitive observation of surface-activated amorphous layers by time-resolved coherent Raman spectroscopy	
	10:30	11:00	Coffee break							
	11:00	12:00	TILA-LIC02: TILA-LIC2025 Plenary I	Prof. T. Taira (RIKEN)	TILA-LIC2-01	Plenary	Martin M. Fejer	Stanford Univ., USA	Ultrabroadband nonlinear nanophotonics in thin-film lithium niobate (TFLN)	
	12:00	13:30	Lunch Break							
	13:30	15:00	TILA-LICp Poster session			TILA-LICp-1		Xavier Mateos	Univ. Rovira i Virgili, Spain	1. Waveguide laser at 705 nm in Eu:KY(WO <sub>4</sub> ) <sub>2</sub> epitaxy
					TILA-LICp-2, 3, & 4		Yoichi Sato	RIKEN RSC, Japan	2. Thermal conductivity of Nd:YAG, Nd:YAG, Nd:YAG, and Y <sub>2</sub> O <sub>3</sub> ceramics compared to YAG single crystal 3. Improvement of the crystalline orientation control for grains in Yb:FAP ceramics using rotating magnetic flux 4. Augmenting the emission bandwidth by spectrum tailoring in the stacked Nd-doped garnet crystals	
				TILA-LICp-5		Hideki Ishizuki	RIKEN RSC, Japan	5. Construction of QPM Quartz device by plate bonding		
				TILA-LICp-6		Akihiro Osanai	RIKEN RSC, Japan	6. Laser damage evaluation for sophisticated material		
				TILA-LICp-7 & 8		Hideho Odaka	RIKEN RSC, Japan	7. Short and long double pulse TILA for LIBS 8. Stable high power DFC amplifier for quantum computer		
15:00	15:30	TILA-LIC3: Social implementation of TILA	Dr. H. Takigami (RIKEN)	TILA-LIC3-01	Invited	Fabian Rotermond	KAIST, Korea	Transition dynamics of pulsed operation in near-infrared waveguide lasers		
15:30	15:45			TILA-LIC3-02	Oral	Yuji Sano	Osaka University, Japan	Service life extension of infrastructure by laser peening using a high-power tiny integrated laser (TILA)		
15:45	16:00		Dr. Y. Sato (RIKEN)	TILA-LIC3-03	Oral	TILA-consortium (Institute for Molecular Science, Japan)				
16:00	16:15	Break								
16:15	18:45	<p style="text-align: center;"><b>OPIC Plenary Session</b></p> <p style="text-align: center;">Room 501+502 @ Pacifico Yokohama Conference Center</p>								

## TILA-LIC2025 Program (Room 315 @ Pacifico Yokohama Conference Center, Apr. 24th, 2025)

Date	Start	End	Session	Presider	Paper No.	Type	First author	Primary affiliation of the first author	Paper title	
2025/4/24	9:00	9:30	TILA-LIC4: Particle acceleration	Prof. K. T. Takeya (IMS)	TILA-LIC4-01	Invited	<b>Almantas Galvanauskas</b>	University of Michigan, USA	Coherently combined in time and space fiber laser array technology for driving particle acceleration and secondary radiation sources	
	9:30	9:45			TILA-LIC4-02	Invited	<b>Young Uk Jeong</b>	Korea Atomic Energy Research Institute, Korea	Development of a femtosecond-resolution compact ultrafast electron diffraction system	
	9:45	10:00		Dr. Y. Sato (RIKEN)	TILA-LIC4-03	Oral	<b>Yu Oishi</b>	KEK / IMSS, Japan	Pulsed Intense Lyman- $\alpha$ Laser System	
	10:00	10:15			TILA-LIC4-04	Oral	<b>Kei Takeya</b>	Institute for Molecular Science, Japan	Terahertz Waves Generation Using Near and Mid-Infrared Light Pumped by sub-ns 2J DFC-PowerChip Laser	
	10:15	10:30			Cofee break					
	10:30	11:00	Cofee break							
	11:00	12:00	TILA-LIC5: TILA-LIC2025 Plenary II	Prof. T. Taira (RIKEN)	TILA-LIC5-01	Plenary	<b>G�rard Aka</b>	Chimie ParisTech - PSL University, France	Recent progress on nonlinear borate single crystals for the design of solid-state laser in the UV range	
	12:00	13:30	Lunch Break							
	13:30	14:00	TILA-LIC6: High power laser sources	Dr. V. Yahia (IMS)	TILA-LIC6-01	Invited	<b>Martin Smrz</b>	HiLASE, Czech Republic	Femtosecond thin-disk laser platform Perla and its applications in multi-beam micromachining	
	14:00	14:15			TILA-LIC6-02	Oral	<b>Chun-Yu Cho</b>	National United University, Taiwan	Progress on LED pumped laser with megawatt peak power	
14:15	14:30	TILA-LIC6-03			Oral	<b>Yizhou Liu</b>	Shandong University, China	Characterization of electro-optically controlled pulse stacking of 2x64 pulses		
14:30	14:45	TILA-LIC6-04			Oral	<b>Ruoao Yang</b>	Peking University, China	Repetition rate tunable femtosecond solid-state fiber laser		
14:45	15:00	TILA-LIC6-05			Oral	<b>Linpeng Yu</b>	National Institute for Fusion Science, Japan	Evaluation of high power 3- $\mu$ m and 4- $\mu$ m mid-infrared lasers		
15:00	15:30	Cofee break								
15:30	16:00	TILA-LIC7: Printing & bonding	Dr. H. Odaka (RIKEN)	TILA-LIC7-01	Invited	<b>Myung-Ki Kim</b>	Korea University, Korea	Tiny integrated nanolaser innovations through transfer printing techniques		
16:00	16:15			TILA-LIC7-02	Oral	<b>Chiko Otani</b>	RIKEN RAP, Japan	Phonon-mediated superconducting particle detectors using surface bonding technology for microchip lasers		
16:15	16:30			TILA-LIC7-03	Oral	<b>Shintaro Goto</b>	Tohoku University, Japan	Surface smoothing based on polyimide/PDMS template stripping for low-temperature bonding of heat dissipating ceramics		
16:30	16:45			TILA-LIC7-04	Oral	<b>Tetsuo Sakka</b>	Kyoto University, Japan	Analysis of the plasma with intermediate optical thickness for laser-induced breakdown spectroscopy		
16:45	17:00			TILA-LIC7-05	Oral	<b>Florent Cassouret</b>	Institute for Molecular Science, Japan	Investigation of thermal properties of Cr:LISAF/Sapphire bonded materials		

## TILA-LIC2025 Program (Room 315 @ Pacifico Yokohama Conference Center, Apr. 25th, 2025)

Date	Start	End	Session	Presider	Paper No.	Type	First author	Primary affiliation of the first author	Paper title	
2025/4/25	9:00	9:30	TILA-LIC8: Nonlinear & plasmonic devices	Dr. Y. Sato (RIKEN)	TILA-LIC8-01	Invited	<b>Mariola Ramirez</b>	Autonomous University of Madrid, Spain	Self-Q-switched Plasmon assisted Nanolasing	
	9:30	9:45			TILA-LIC8-02	Invited	<b>Luisa Bausá</b>	Autonomous University of Madrid, Spain	Combining ferroelectrics and 2D materials for nanophotonics	
	9:45	10:15			TILA-LIC8-03	Oral	<b>Tsuneto Kanai</b>	Institute for Molecular Science, Japan	Control of Two-Color Supercontinuum Generation in Liquids and Solids: from novel Broadband Radiation Source to Nonlinear Buried interface Observations	
	10:15	10:30			TILA-LIC8-04	Oral	<b>Yizhou Liu</b>	Shandong University, China	Wavelength tunable fiber optical parametric oscillator for coherent anti-Stokes Raman scattering	
	10:30	11:00	Cofee break							
	11:00	11:30	TILA-LIC9: THz & deep UV generation	Dr. H. Ishizuki (RIKEN)	TILA-LIC9-01	Invited	<b>Luke McHugh</b>	STFC Rutherford Appleton Laboratory, UK	A study of gain media for a laser driver for fusion as part of the UPLIFT project	
	11:30	11:45			TILA-LIC9-02	Oral	<b>Yuma Takida</b>	RIKEN RAP, Japan	Innovative sub-terahertz-wave source for non-destructive applications	
	11:45	12:00			TILA-LIC9-03	Oral	<b>Kenichi Hiroswa</b>	Mitsubishi Electric Corporation, Japan	Sub-nanosecond High Energy Laser Pulse Wavelength Conversion to Deep-UV	
	12:00	13:30	Lunch Break							
	13:30	14:00	TILA-LIC10: Mid-IR sources	Dr. F. Cassouret (IMS)	TILA-LIC10-01	Invited	<b>Feng Chen</b>	Shandong University, China	Advances of solid-state waveguide lasers and microcavity lasers	
	14:00	14:30			TILA-LIC10-02	Invited	<b>Vincent Yahia</b>	Institute for Molecular Science, Japan	DFC-PowerChip-based Multi-Joule laser operated up to 50 Hz at room temperature	
	14:30	15:00			TILA-LIC10-03	Invited	<b>Edcel Salumbides</b>	Advanced Research Center for Nanolithography, the Netherland	Temporal shaping in a mid-IR optical parametric oscillator	
	15:00	15:30	Cofee break							
	15:30	16:30	TILA-LIC11: TILA-LIC2025 Plenary III & closing	Prof. T. Taira (RIKEN)	TILA-LIC11-01	Plenary	<b>Hans Dieter Hoffmann</b>	Fraunhofer ILT, Germany	To be defined	
	16:30	17:00		Prof. X. Mateos (Univ. Rovira Virgili)	TILA-LIC11-02	Closing remarks by Conference chair Awarding ceremony				