

FTT 2022 Program
(Nov. 16-18, 2022)

Ver. Sep 9, 2022

Remind that the time table and title of invited talk are tentative.

Nov. 16 2022

Opening (11:00-11:20)					
We1.1	Yuusuke	Yamaguchi	University of Fukui, Japan	THz gyrotron and its applications (invited)	11:20
We1.2	Hitoshi	Ohta	Kobe University, Molecular Photoscience Research Center	Development of Multi-Extreme THz ESR and Its Application to Study Triangular Lattice Antiferromagnet CsCuCl ₃	11:45
We1.2	Noriaki	Tsurumachi	Faculty of Engineering and design, Kagawa university	Strong coupling interactions in THz microcavities containing magnetic metamaterials	12:00
We1.3	Hikaru	Takehara	Osaka University	THz motion of proton in the solid electrolyte of proton-conducting fuel cell	12:15
Lunch (12:30-14:30)					
We2.1	Chia Ee Min	Elbert	Nanyang Technological University, Singapore	Ultrafast terahertz spectroscopy of functional materials (invited)	14:30
We2.2	Yuya	Ueno	Tohoku University	Modulation of DNA damage repair in living cells by THz irradiation	14:55
We2.3	XUE	DING	Okayama University	Development of Lung Cancer Cell Detection Technology in Liquid Phase Using a Terahertz Chemical Microscope	15:10
We2.4	Hikomichi	Hoshina	RIKEN Center for Advanced Photonics	THz irradiation effects on morphology of actin protein and cell function	15:25
We2.5	Sota	Yoshida	Okayama University	Measurement of Calcium Ions Using a Terahertz Chemical Microscope	15:40
We2.6	Lou Serafin	Lozada	Kobe University	Low-frequency spectra of dried and hydrated montmorillonite studied by THz-TDS: structural formation of confined water	15:55
Break (16:10-16:40)					
We3.1	Hideki	Hirayama	RIKEN Japan	Toward room-temperature and high-power operation of THz-QCL (invited)	16:40
We3.2	Giacomo	Scalari	ETH, Swiss	Frequency comb generation and operating temperature rise on THz QCL (invited)	17:05
We3.3	Thomas	Kurner	TU Braunschweig, Germany	THz technology developed on the Japan-Europe joint project ThoR (invited)	17:30
We3.4	Serge	Bielawski	University of Lille, France	Single-shot THz detection of synchrotron radiation (invited)	17:55

Nov. 17 2022

Thu1.1	Tomofumi	Ikari	RIKEN/SpectraDesign, Japan	Body scanner using sub THz band (invited)	9:30
Thu1.2	Mary Clare	Escaño	Research Center for Development of Far-Infrared Region, University of Fukui	Direct and atomically precise probing and identification of the defect origin of two-step photon absorption in low-temperature GaAs by first-principles spin-orbit calculations and STM/STS measurements	9:55
Thu1.3	Ryo	Tamaki	KISTEC, Yokohama National University	Chirped-pulse up-conversion spectroscopy with dispersion compensation using a Yb-doped fiber laser	10:10
Thu1.4	Yuma	Takida	RIKEN Center for Advanced Photonics, RIKEN	Thin lithium niobate substrate as dichroic beam splitter for backward terahertz-wave parametric oscillator	10:25
Break (10:40-11:00)					
Thu2.1	(Prize Winner)			Terahertz Technology Prize	11:00
Thu2.2	Hiromasa	Ito		Tutorial (Symposium)	11:30
Lunch (12:30-14:30)					
Poster1				Symposium Poster Session	14:30
Poster2				FTT Poster Session	16:00

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Fr1.1	Mona	Jarrahi	University of California Los Angeles, USA	Development of terahertz wave detection method using plasmon and its application (<i>invited</i>)	9:30
Fr1.2	Akira	Satou	Tohoku University	Drastic Improvement on Pulse Response of Grating-Gate Plasmonic THz Detector by Introduction of Inverted-HEMT Structure	9:55
Fr3.3	Naoya	Kawai	Hamamatsu Photonics, Japan	THz image intensifier using metasurface (<i>invited</i>)	10:10
Fr3.4	Takehito	Suzuki	Tokyo University of Agriculture and Technology	Metasurface demonstrating both high refractive index and low reflectance in the infrared region	10:25
Break (10:50-11:10)					
Fr4.1	Ranjang	Singh	Nanyang Technological University, Singapore	Topological integrated circuits and metasurfaces for THz applications (<i>invited</i>)	11:10
Fr4.2	Ayato	Iba	Institute of Laser Engineering, Osaka University	Sub-diffraction focusing with THz super-oscillatory lens	11:25
Fr4.3	Akifumi	Kasamatsu	NICT, Japan	THz Communications (<i>invited</i>)	11:40
Fr4.4	Hiroshi	Hamada	NTT DOCOMO, INC.	150-GHz 20-Gb/s Real-time Data Transmission Using Channel-bonding Technique	12:05
Lunch (12:20-14:30)					
Fr5.1	Katsumasa	Yoshioka	NTT, Japan	Ultrafast and terahertz responses of graphene devices (<i>invited</i>)	14:30
Fr5.2	Yasushi	Koyama	Canon, Japan	High power THz source based on RTD (<i>invited</i>)	14:55
Fr5.3	Van Ta	Mai	Tokyo Institute of Technology	Array configuration for high output power in structure-simplified resonant-tunneling-diode terahertz oscillator	15:20
Closing (15:35-16:00)					15:35