

Schedule

ver. 100225

3rd International Workshop on Far-Infrared Technologies 2010 (IW-FIRT2010)

15 (Mon) -17(Wed) March, 2010

15 Mar. (Mon)				
session	No.	name	title	chairperson
9:00 The registration desk opens from 8:30.				
Opening remark	Welcome address by the president of University of Fukui			
Opening talk	15a-1	Toshitaka Idehara (U. Fukui)	High power far-infrared radiation sources - Gyrotrons in FIR FU --- The development and applications in recent ten years	Vladimir Bratman
Gyrotron development	15a-2	Manfred Thumm (Karlsruhe Inst. Tech., Germany)	Recent results of the 2 MW, 0.17 THz European pre-prototype coaxial-cavity gyrotron for ITER	
Break				
Gyrotron development	15a-3	Vladimir L. Bratman (IAP, RAS, Russia)	Terahertz electron devices	Manfred Thumm
	15a-4	Svilen Sabchevski (IE-BAS, Bulgaria)	Physical models and computer codes for CAD and study of gyrotrons	
	15a-5	Tsun-Hsu Chang (National Tsing Hua U., Taiwan)	Broadband terahertz gyrotron using backward-wave components	
12:00 Lunch				
13:00				
Gyrotron development and applications	15p-1	Walter Kasperek (U. Stuttgart, Germany)	High-power duplexers for plasma heating and diagnostic systems: developments, experiments and prospects	Svilen Sabchevski
	15p-2	Isamu Ogawa (U. Fukui)	Development of a continuously frequency tunable gyrotron	
	15p-3	Yasuhisa Oda (JAEA)	Status of EC technology development in JAEA	
Break				
Gyrotron development and applications	15p-4	Shin Kubo (NIFS)	Collective Thomson scattering of high power ECRH beam and prospects for applying a sub-tera Hz gyrotron in LHD	Walter Kasperek
	15p-5	Teruo Saito (U. Fukui)	Development of a high power sub terahertz pulse gyrotron for application to collective Thomson scattering	
	15p-6	Yoshinori Tatematsu (U. Fukui)	Study of Gyrotron FU CW I operation	
	15p-7	Shoji Asai (U. Tokyo)	Measurement of hyperfine split of positronium atoms using sub-THz gyrotron	

16 Mar. (Tue)				
session	No.	name	title	chairperson
Terahertz spectroscopy	16a-1	Koichiro Tanaka (Kyoto U.)	Terahertz non-linear spectroscopy	Masahiko Tani
	16a-2	Michael I. Bakunov (U. Nizhniy Novgorod, Russia)	Optical-to-terahertz conversion in EO crystals: recent results and new ideas	
	16a-3	Masanori Hangyo (Osaka U.)	Metamaterials in the terahertz region	
Break				
Terahertz spectroscopy	16a-4	Masahiko Tani (U. Fukui)	Attempts to build a high-speed terahertz time-domain spectroscopic system	Masanori Hangyo
	16a-5	Seizi Nishizawa (AISPEC/Shinshu U.)	Terahertz time-domain spectroscopy (THz-TDS) approach to the quality control on pharmaceutical products	
	16a-6	Kohji Yamamoto (PRESTO/U. Fukui)	Microscopic segregation of ionic liquid/water mixtures studied by terahertz time-domain spectroscopy	
Photo We shall take a photo with all participants just after the morning session.				
Lunch				
13:00				
Materials development and magnetic resonance	16p-1	Aripin (U. Haluoleo, Indonesia)	Electrochemical performance of electric double layer capacitor (EDLC) using KOH-activated carbon as an electrode material	Isamu Ogawa
	16p-2	Seitaro Mitsudo (U. Fukui)	Millimeter and submillimeter wave material processing in FIR FU	
	16p-3	Andrei Rogalev (ESRF, France)	X-ray detected magnetic resonance: a new tool to probe magnetization dynamics	
	16p-4	Seong-Tae Han (KERI, Korea)	460 GHz gyrotron and its application for active real-time imaging experiments	
Break				
Poster session	at cafeteria of university co-op			Seitaro Mitsudo
17:00				
Banquet	(17:30~20:00) at cafeteria of university co-op			

17 Mar. (Wed)				
session	No.	name	title	chairperson
Magnetic resonance	17a-1	Ray Dupree (U. Warwick, England)	Towards DNP enhanced solid-state NMR at 14.1T	Teruo Saito
	17a-2	Toshimichi Fujiwara (Osaka U.)	Application of high-intensity sub-MMW source, gyrotron, to the signal enhancement of nuclear magnetic resonance of biological solids	
	17a-3	Yutaka Fujii (U. Fukui)	Recent development and experiments of magnetic resonance at University of Fukui	
Break				
Magnetic resonance	17a-4	Soonchil Lee (KAIST, Korea)	Quest for experimental evidence for the working principle of Kane's quantum computer	Ray Dupree
	17a-5	Takao Mizusaki (Kyoto U./Toyota/U. Fukui)	mm-Wave ESR of low-doped Si:P for application to quantum computing	
Closing				
Excursion We are planning to go for an excursion after the workshop. The detailed plan will be announced soon.				

Note

All talks except for 15a-1 are 30 minutes talks including the time for discussions (~5 min).

For oral presentations, you can connect your own PC to LCD projector via standard RGB cable.

Poster presentations should be put up from 16:10 until 19:00 on 16 Mar. (The boards for posters are open from 16:00 until 20:00.)