

Program of International Symposium on Development of Terahertz Gyrotrons and Applications

March 14 (Thursday)

Session	Chair	No.	Time	Name	Title
Gyrotron application to magnetic resonance	M. Thumm	14A-1	9:00-9:25	T. Idehara	Introduction of the International Consortium, International Collaboration
		14A-2	9:25-9:50	R. Dupree	Dynamic Nuclear Polarization for Enhancing NMR signals. Why? How?
		14A-3	9:50-10:15	Y. Matsuki	Application of Continuously Frequency-Tunable 0.4 THz-gyrotron for Sensitivity Enhanced Solid-State NMR Spectroscopy
<i>Break</i>			10:15-10:35		
Gyrotron application to magnetic resonance	W. Jiang	14A-4	10:35-11:00	F. Horii	DNP-enhanced cross polarization/magic-angle spinning NMR for the characterization of the surface structure of polymeric materials
		14A-5	11:00-11:15	S. Mitsudo	Development of the pulsed ESR spectrometer by using a Gyrotron as the high power radiation source
		14A-6	11:15-11:35	(Discussion)	Discussion concerning the talks in the morning session
<i>Group Photo and Lunch</i>			11:35-13:00		
Gyrotron application to sintering and plasma diagnostics	S. Sabchevski	14P-1	13:00-13:25	M. Thumm	Status of High-Temperature Microwave Materials Processing at KIT
		14P-2	13:25-13:50	M. Glyavin	Review of gyrotron-based technological systems and their application for microwave ceramic sintering
		14P-3	13:50-14:05	S. Mitsudo	Submillimeter wave materials processing at FIR FU
		14P-4	14:05-14:30	S. Kubo	Collective Thomson scattering from high power ECRH gyrotron beam in LHD
<i>Break</i>			14:30-14:50		
New studies with gyrotron and intense THz radiation sources	I. Ogawa	14P-5	14:50-15:15	K. Hirakawa	Control of electron transport in semiconductor superlattices by intense THz radiation
		14P-6	15:15-15:40	T. Yamazaki	Sub-THz Spectroscopy of the Ground State Hyperfine Splitting of Positronium
		14P-7	15:40-16:05	T. Suehara	Search for Weakly Interacting Undiscovered Particles using Sub-THz Gyrotron
		14P-8	16:05-16:30	S. Ishiyama	Innovation Strategy of Highly Coalesced Quantum Beam Science and Technology with Terahertz Gyrotron in Medicine and Information-communication Fields
		14P-9	16:30-16:45	M. Tani	High THz field generation and its application to studies of nonlinear material responses
		14P-10	16:45-17:10	M. Bakunov	Highly efficient optical-to-terahertz conversion in electro-optic crystals
		14P-11	17:10-17:30	(Discussion)	Discussion concerning the talks in the afternoon session
A social gathering					

March 15 (Friday)

Session	Chair	No.	Time	Name	Title
High power gyrotrons	T. Saito	15A-1	9:00-9:25	M. Thumm	Status of High-Power Fusion Gyrotron Development at KIT
		15A-2	9:25-9:50	K. Sakamoto	Activities on the high power long pulse gyrotron development in JAEA
		15A-3	9:50-10:15	M. Glyavin	High power gyrotrons development at IAP RAS
		15A-4	10:15-10:40	R. Minami	Development of multi-purpose MW gyrotrons for fusion devices by University of Tsukuba
<i>Break</i>			10:40-11:00		
Transmission system and new trends	K. Sakamoto	15A-5	11:00-11:25	W. Kasperek	Millimeter-wave technology for heating and diagnostics of fusion plasma experiments
		15A-6	11:25-11:50	W. Jiang	High-Power Microwave Source Development in Nagaoka University of Technology
		15A-7	11:50-12:15	S. Sabchevski	Current status and an outlook for further development of the simulation tools for computer-aided design (CAD) of high-performance gyrotrons for novel applications
<i>Lunch</i>			12:15-13:30		
Gyrotron development in FIR FU	M. Glyavin	15P-1-1	13:30-14:40	T. Saito	Advanced gyrotron project in FIR FU
		15P-1-2		Y. Tatematsu	Development of Gyrotron FU CW G-series
		15P-1-3		R. Ikeda	Development of 203 GHz/ 1 kW table-top size gyrotron FU CW CII
		15P-1-4		Y. Yamaguchi	Development of a 300 GHz High-Power Pulse Gyrotron
		15P-1-5		I. Ogawa	Stabilization of Gyrotron output power using a feedback control
		15P-2	14:40-15:00	(Discussion)	Discussion concerning the talks in March 15
Summary		15P-3	15:00-15:10	(Summary)	Summary of International Symposium