IRMMW-THz 2005 Program

		PLENARY 8:30-10:00	BREAK 10:00-10:30		SESSION 10:30-12:00	LUNCH 12:00-13:30		SESSION 13:30-15:30		SESSION 15:30-17:30		EVENING
SUNDAY												Registration and Reception (18:00-20:00) Courtyard
MONDAY	MOX-1	Erckmann		MA1	THz Technology, Ultrafast Measurements, and Imaging		MB1	THz Technology, Ultrafast Measurements, and Imaging	MC5	POSTER 1		
				MA2	Spectroscopy and Material Properties		MB2	Spectroscopy and Material Properties				
	MOX-2	Walker		MA3	Plasma and Industrial Applications		MB3	Sources, Detectors and Receivers Semiconductor, Superconductor and Other				
				MA4	Novel Devices and Components (Nano and Quantum devices, Photonic crystals)		MB4	Vacuum Electronic Sources				
TUESDAY	TUX-1	Kawase		TA1	Millimeter Waves Systems		TB1	THz Technology, Ultrafast Measurements, and Imaging	TC5	POSTER 2		Colonial Williamsburg Walking Tour (19:00 or 20:00)
				TA2	Spectroscopy and Material Properties		TB2	Sources, Detectors and Receivers Semiconductor, Superconductor and Other				
	TUX-2	Arnone		TA3	Plasma and Industrial Applications		TB3	Novel Devices and Components (Nano and Quantum devices, Photonic crystals)				
				TA4	Gyro-oscillators and Amplifiers		TB4	Gyro-oscillators and Amplifiers				
WEDNESDAY	WEX-1	Schmuttenmaer		WA1	Millimeter Waves Systems		WB1	THz Technology, Ultrafast Measurements, and Imaging	WC5	POSTER 3		
				WA2	Spectroscopy and Material Properties		WB2	Sources, Detectors and Receivers Semiconductor, Superconductor and Other				
	WEX-2	Stutzki		WA3	Transmission Lines and Antennas		WB3	Biological and Medical Applications, Ultrafast Chemistry and Physics				
				WA4	Gyro-oscillators and Amplifiers		WB4	Free Electron Lasers and Synchrotron Radiation				
THURSDAY	RUX-1	Neil		RA1	THz Technology, Ultrafast Measurements, and Imaging			TOURS:				Reception (18:00) and Banquet (19:00) Richmond Hall
				RA2	Spectroscopy and Material Properties			Jefferson Lab (Meet @ 14:00)				
	RUX-2	KJB Prize Talk		RA3	Transmission Lines and Antennas			or				
				RA4	Gyro-oscillators and Amplifiers			Jamestown Settlement (Meet @ 13:30)				
FRIDAY	FRX-1	Rodwell		FA1	THz Technology, Ultrafast Measurements, and Imaging							
				FA2	Sources, Detectors and Receivers Semiconductor, Superconductor and Other							
	FRX-2	Wang		FA3	Infrared Imaging and Applications							
				FA4	Gyro-oscillators and Amplifiers							

Session Identifier	Room
Sessions Ending in "1"	Hill& McClellan (Richmond Hall)
Sessions Ending in "2"	Jackson & Grant (Newmarket Hall)
Sessions Ending in "3"	Lee (Newmarket Hall)
Sessions Ending in "4"	Davis (Newmarket Hall)
Sessions Ending in "5"	Petersburg
Sessions Ending in "X"	Hill& McClellan (Richmond Hall)

Session	Number	o=Oral p=Poster	PL=Plenary K=Keynote	Submitting Author Name	Title	Submitting Author Organization
MOX	1	o	PL	Volker Erckmann	The 140 GHz, 10 MW, CW ECRH System for W7-X:	Max Planck Institut für Plasmaphysik, Germany
MOX	2	o	PL	Chris Walker	TeraHertz Astronomy from the Coldest Place on Earth	University of Arizona
MA1	1	o	K	David Zimdars	Large Area High Speed Time Domain THz Imager for Security and Non Destructive Evaluation Imaging	Picometrix, Inc.
MA1	2	o		David Cook	Detection of high explosives with THz radiation	Physical Sciences, Inc.
MA1	3	o		Eyal Gerecht	HEB FPA Imaging Technology for Security and Biomedical Applications	NIST-Boulder, CO
MA1	4	o		Lien Nguyen	3D Imaging with a Terahertz Quantum Cascade Laser (QCL)	Department of Chemical Engineering, University of Cambridge, Pembroke Street,
MA2	1	o		Louis Claude Brunel	Novel Approach for Electron Magnetic Resonance: A FEL based time domain EMR spectrometer. LC Brunel, J. (Hans) van Tol	National High Magnetic Field Laboratory/FSU, Tallahassee, FL 32310
MA2	2	o		NIKOLAOS MARAGKOS	Design and performance of a pulsed THz diffuse reflectance system	School of Electronic and Electrical Engineering, University of Leeds
MA2	3	o		Nobuhiro Miura	Far infrared spectroscopy by portable synchrotron MIRRORCLE 20	Ritsumeikan University
MA2	4	o		Juraj Darmo	Terahertz evanescence field spectroscopy	TU Wien, Photonik Institut, Gusshausstrasse 25-27, Vienna, Austria
MA2	5	o		Oleksiy Drachenko	Compact Terahertz cyclotron resonance spectrometer in high magnetic fields	LNCMP, 143 av. de Rangueil, 31432 Toulouse, France
MA2	6	o		Vladimir Parshin	Dielectric losses in CVD diamonds at frequencies 1 kHz - 360 GHz	Institute of Applied Physics of RAS, 46, Ulianov st., 603950, Nizhny Novgorod, Russia.
MA3	1	o	K	Dietmar Wagner	Current status of the new ECRH system for ASDEX Upgrade	Max-Planck-Institut fuer Plasmaphysik, Garching, Germany
MA3	2	o		Hitoshi Hojo	Method of Electron Density Measurement by Fabry-Perot Interferometry	University of Tsukuba
MA3	3	o		Gregory Denisov	Development of gyrotron based technological setups at GYCOM/IAP	Institute of Applied Physics, Russian Academy of Sciences
MA3	4	o		Yasuhisa Oda	Application of high power millimeter-wave to beamed energy propulsion	The university of Tokyo
MA3	5	o		Ralph W. Bruce	Materials Processing for Space Applications Using a Millimeter-Wave	RWBruce Associates Inc.
MA4	1	o	K	Michael Martin	Fabrication and Optical Measurements of Nanoscale Meta-Materials: Terahertz and Beyond	Lawrence Berkeley National Laboratory
MA4	2	o		Hamza Kurt	New approaches in biochemical sensing using photonic crystals in the terahertz region	Georgia Institute of Technology
MA4	3	o		Hayden Brownell	Vacuum micro-electronic optical modulator	Dartmouth College
MA4	4	o		Ken Suto / Tanabe	Frequency-tunable terahertz wave generation from GaP using Cr:Forsterite lasers	Semiconductor Research Institute

MB1	1	o	K	Hua Zhong	Standoff distance detection of explosive materials with THz wave	Center for THz Research, Rensselaer Polytechnic Institute
MB1	2	o		Keilmann Fritz	RAPID, REMOTE SENSING WITH A COHERENT-COMB INFRARED SPECTROMETER	Max-Planck-Institut fur Biochemie
MB1	3	o		Ian Gregory	Multichannel continuous-wave terahertz imaging	TeraView Ltd.
MB1	4	o		Norbert Klein	A novel broadband probe for near-field imaging and spectroscopy from DC to THz	Forschungszentrum Jülich GmbH, cni – Center of Nanoelectronics and Information
MB1	5	o		Tadao Tanabe	Attenuated total reflection spectroscopy of liquids using GaP terahertz spectrometer	Tohoku University
MB1	6	o		Takashi Arikawa	The Dynamics of biomolecules in water revealed by terahertz time-domain attenuated total reflection spectroscopy	Department of Physics, Kyoto University
MB1	7	o		Yunqing Chen	THz spectroscopic investigation of selected purines and amino acids	Center for Terahertz Research, Rensselaer Polytechnic Institute,Troy, NY 12180-3590
MB2	1	o	K	Michael von ORTENBERG	High-Field Magneto-Spectroscopy in HgSe up to 200 Tesla	Humboldt University at Berlin
MB2	2	o		S, M and T J Farjami Shayesteh, Hiedari, Parker	effect of magnetic field on optical and electronic properties of doped CdMnTe semimagnetic semiconductor	physics Department-University of Guilan and university of Essex
MB2	3	o		Hisashi Sumikura	Measurement of the terahertz Faraday effect in III-V semiconductors	Institute of Laser Engineering
MB2	4	o		Mi Lin	Precision measurement of complex permittivity and permeability by microwave	Tufts University
MB2	5	o		Usman Khan	High Frequency Dielectric Measurements of Liquids and Solids	Tufts University
MB2	6	o		Wolfgang Weber	Infrared radiation induced spin photocurrents in GaN quantum well structures	University of Regensburg, 93040, Regensburg, Germany
MB2	7	o		Boris Gorshunov	TERAHERTZ SPECTROSCOPY OF MATERIALS WITH ELECTRONIC CORRELATIONS	General Physics Institute, Russian Academy of Sciences

MB3	1	o	K	Brian Jackson	Design and Performance of the 600-720 GHz ALMA Band 9 Cartridge	SRON
MB3	2	o		Eric Bryerton	Development of Electronically Tuned Local Oscillators for ALMA	National Radio Astronomy Observatory
MB3	3	o		David Bolton	Phase noise of sources for multiplication to mm-wave frequencies.	University of St Andrews
MB3	4	o		David Kurtz	Frequency Domain Terahertz Spectroscopy	Virginia Diodes Inc.
MB3	5	o		David Porterfield	A 190 GHz High Pulsed Power Frequency Doubler	Virginia Diodes, Inc.
MB3	6	o		Qun Xiao	300-GHz Heterostructure Barrier Varactor (HBV) Frequency Septupler	University of Virginia
MB3	7	o		Heinz-Wilhelm Huebers	Characterization of a Quantum Cascade Laser as Local Oscillator in a Heterodyne Receiver at 2.5 THz	German Aerospace Center (DLR), 12489 Berlin, Germany
MB4	1	o	K	Dave Berry, Peter Horoyski, Mark Hyttinen, Albert Roitman,	Extended Interaction Klystrons for Submillimeter Applications	Communications and Power Industries Canada, Inc.
MB4	2	o		Carol Kory	Microfabricated W-Band Traveling Wave Tubes	Calabazas Creek Research, Inc.
MB4	3	o		Gregory Nusinovich	Analytical theory of microwave sources with transversely nonuniform interaction space	IREAP, University of Maryland, College Park, MD 20742-3511
MB4	4	o		Jay Hirshfield	High-Power Millimeter-Wave Harmonic Generator*	Yale University
MB4	5	o	K	Harish Manohara	Carbon nanotube bundle-based cold cathodes for THz tube sources	Jet Propulsion Laboratory- Caltech
MB4	6	o		Lawrence Ives	Design and Test of a Submillimeter-Wave Backward Wave Oscillator	Calabazas Creek Research, Inc.
MB4	7	o		Oleg Nezhevenko	High-Power Millimeter-Wave Magnicon Amplifier	Omega-P, Inc.
MC5	1	p		David Speirs	Laboratory simulation at microwave frequencies of auroral kilometric radiation emission mechanisms	Strathclyde University, UK
MC5	2	p		Nikolay Ruzhentsev	Global features of the total vertical absorption of atmosphere at 10-1000 GHz range	Institute of Radio Astronomy, National Academy of Sciences of Ukraine
MC5	3	p		Sergey Golovachev	AN ADAPTIVE SPECTROELLIPSOMETRIC TECHNOLOGY FOR THE PRECISE REAL-TIME MEASUREMENTS OF THE QUALITY OF NATURAL	Institute of Radioengineering and Electronics, RAS
MC5	4	p		Alex Quema	Modal analysis of teflon photonic crystal fiber as a terahertz waveguide	Institute for Molecular Science
MC5	5	p		Hasan Ajam	Photonic-Band Structure of Multi-Layer Photonic Crystals	Department of Electrical and computer engineering Enginering, university of Tehran,
MC5	6	p		Ivan Konoplev	Study of wave interference in 1D Photonic Band Gap structures	Department of Physics, University of Strathclyde,107 Rottenrow, Glasgow,G4
MC5	7	p		Juraj Darmo	Terahertz photonic crystal waveguides	TU Wien, Photonik Institut, Gusshausstrasse 25-27, Vienna, Austria
MC5	8	p		Yashar Komijany	Design, Fabrication and Characterization of a two Dimensional Photonic Crystal by Deep Vertical Etching of Polyethylene Terephtalate	Thin Film Lab, University of Tehran, Iran
MC5	9	p		Yashar Komijany	Design and Fabrication of an Infrared Planar Reflector Using Carbon Nanotubes	Thin Film Lab, University of Tehran, Iran

MC5	10	p		Iwao Hosako	Terahertz Electroluminescense from AlSb/GaSb quantum cascade laser structre	National Institute of Information and Communications Technology (Japan)
MC5	11	p		Aleksey Kuleshov	Electrical Discharge Excitation of Plasmoid in Liquid Medium	Institute for Radiophysics and Electronics of NAS of Ukraine, 12 ac. Proscura st., 61085
MC5	12	p		Shigeki Okajima	Development of 57- and 48-micron CH3OD Laser Sources for Two Color Interferometer in Fusion Plasma Diagnostics	Chubu University, Japan
MC5	13	p		Hitoshi Hojo	Control of Electromagnetic Waves by 2-d Plasma Photonic Crystals	University of Tsukuba
MC5	14	p		Kostyantyn Ilyenko	"Self-action" of a weakly-relativistic charge in a cylindrical drift tube	Institute for Radiophysics and Electronics of NAS of Ukraine
MC5	15	p		Oksana Shramkova	Investigation of drift waves in semiconducting multilayered structure	Institute of Radiophysics and Electronics of the NAS of Ukraine
MC5	16	p		Robert Hardin	A 300 GHz Collective Scattering System for Low Temperature Plasmas	West Virginia University
MC5	17	p		Shenggang Liu	Theoretical Study on Vavilov-Cherenkov Radiation in Hermitian Media	UESTC
MC5	18	p		Vitalij Kubarev	Quasi-continuous submillimeter optical discharge on Novosibirsk free-electron laser: experiments and elementary theory	Budker Institute of Nuclear Physics, Novosibirsk, Russia
MC5	19	p		Aleksey Kuleshov	Stimulated Radiation from Water Medium Excited by Electrical Discharge	Institute for Radiophysics and Electronics of NAS of Ukraine, 12 ac. Proscura st., 61085
MC5	20	p		Alireza Gholipour	A new design of flat top pass band arrayed waveguide grating	M.S
MC5	21	p		Andrei Malcoci	300 GHz waveguide photomixers using low temperature grown GaAs photoconductors	IMP, University of Leeds
MC5	22	p		Ahmad Al-Shamma	Microwave plasma source as an ozone generator	University of Liverpool
MC5	23	p		Daryoosh Saeedkia	A High-Temperature Superconductor Photomixer/Antenna Array Source for Terahertz Applications	University of Watreloo
MC5	24	p		Daryoosh Saeedkia	Modeling of Photoconductor Terahertz Photomixers	University of Watreloo
MC5	25	p		Daryoosh Saeedkia	Modeling of High-Temperature Superconductor Terahertz Photomixers	University of Watreloo
MC5	26	p		Dimitri Paveliev	Frequency dependence of the radiation power emitted by GaAs/AlAs superlattice diodes subject to a high-frequency electric field.	Nizhny Novgorod State Univercity,Russia
MC5	27	p		Hemant Dave	Receiver Development for 300-3000GHz region	Physical Research Laboratory, India
MC5	28	p		Hemant Dave	HIGH RESOLUTION CHIRP TRANSFORM SPECTROMETER	Physical Research Laboratory, India
MC5	29	p		Juncheng Cao	Counterintuitive behavior of electron temperature in terahertz-driven heterojunctions	Shanghai Institute of Microsystem and Information Technology, Chinese Academy of
MC5	30	p		Naoyuki Orihashi	Harmonic Generation of 1THz in Sub-THz Oscillating Resonant Tunneling Diode	Tokyo Institute of Technology
MC5	31	p		Safumi Suzuki	Mutual Injection Locking between Sub-THz oscillating Resonant Tunneling Diodes	Tokyo Institute of Technology
MC5	32	p		Tjeerd Klaassen	Beam profiles of Terahertz Quantum Cascade Lasers with a metal-metal waveguide: experiment and theory	Kavli Institute of Nanoscience, Faculty of Applied Sciences, Delft University of

MC5	33	p		Vitalij Kubarev	Highly sensitive fast Schottky-diode detectors in experiments on Novosibirsk free-electron laser	Budker Institute of Nuclear Physics, Novosibirsk, Russia
MC5	34	p		Xue Chu Shen	Numerical simulation of Long wavelength HgCdTe photodiodes	National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics,Chinese
MC5	35	p		Zhi Jue Quan	Effects of carrier degeneracy and conduction band non-parabolicity on the simulation of HgCdTe photovoltaic devices	National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics,
MC5	36	p		Alex Quema	Uncharacteristic behavior in low temperature of conductive polypyrrole detected by temperature-dependent terahertz transmission spectroscopy	Institute for Molecular Science
MC5	37	p		Ahmed Al-Shamma	Microwave plasma catalyst	University of Liverpool
MC5	38	p		Britta Redlich	Vibrational spectroscopy of isolated clusters in the gas-phase using the free-electron-laser 'FELIX'	FELIX facility, FOM Rijnhuizen
MC5	39	p		Dharma Lingam	MOLECULAR INTERACTION STUDIES OF ACRYLIC ESTERS WITH ALCOHOLS	annamlai university
MC5	40	p		Ekaterina Sobakinskaya	Investigation of microwave spectrum of molecules in a stochastic field	Institute for physics of microstructures RAS
MC5	42	p		Guozhong Zhao	Terahertz Transmission of Subwavelength Planar Fractals	Department of Physics, Capital Normal University
MC5	43	p		Igor Spektor	METHODOLOGY AND HARDWARE OF TERAHERTZ BWO-SPECTROSCOPY	General Physics Institute, Russian Academy of Sciences
MC5	44	p		L. T. Ho	Infrared Absorption Spectrum of Magnesium Double Donors in Silicon	Institute of Physics, Academia Sinica, Taipei, Taiwan
MC5	45	p		Mehdi Valiyev	Dielectric properties and molecular structure of acetileacetone ant its solutions in n-heptane	Mr., postgraduate student
MC5	46	p		Morag Garven	Variable Temperature Measurements of the Dielectric Properties of Lossy Materials in W-band	Naval Research Laboratory
MC5	47	p		Seitaro Mitsudo	High frequency ESR measurements of thiospinel CuCrZrS4	Research Center for Development of Far-Infrared Region, University of Fukui
MC5	48	p		Gernod Fasching	Microcavity THz quantum cascade laser	TU Wien, Photonik Institut, Vienna, Austria
MC5	49	p		Talgat Inerbaev	Far-infrared absorption of DAST: Theoretical study.	Institute for Materials Research, Tohoku University, Japan
MC5	50	p		Tatsuyuki KANAMORI	Application of Terahertz Spectroscopy to Abused Drug Analysis	National Research Institute of Police Science, Japan.
MC5	51	p		Tjeerd Klaassen	Negative photoconductivity due to coherent trapping of electrons in n-GaAs	Kavli Institute of Nanoscience, Faculty of Applied Sciences, Delft University of
MC5	52	p		Tohru KISHI	Differentiation of Optically Active Form and Racemic Form of Amphetamine-type Stimulants by Terahertz Spectroscopy	National Research Institute of Police Science, Japan.
MC5	53	p		Toshiaki Nose	Measurements of the Complex Refractive Index Properties of the Liquid Crystal Materials by Using the W-band Waveguide Test Cell	Akita Prefectural University
MC5	54	p		Toshiyuki Iwamoto	Development of a New Comercial THz-TDS Instrument	Advanced Infrared Spectroscopy Co.,Ltd.
MC5	55	p		Ulrich Schade	Spectral THz ellipsometer for the unambiguous determination of all Stokes parameters	BESSY, Albert-Einstein-Str. 15, 12489 Berlin, Germany
MC5	56	p		Vadim Derkach	Measurement of loss tangent of dielectric and semiconductor materials at millimeter waves and temperatures 0.9- 300 K	Usikov Institute of Radiophysics and Electronics of National Academy of Sciences of

MC5	57	p		Vitalij Kubarev	High resolution mesh Fabry-Perot interferometers in experiments on free-electron and gas lasers	Budker Institute of Nuclear Physics, Novosibirsk, Russia
MC5	59	p		Xiaolin Lei	Microwave modulation of electron heating and Shubnikov-de Haas oscillation in two-dimensional electron systems	Department of Physics, Shanghai Jiaotong University, 1954 Huashan Road, Shanghai
TUX	1	o	PL	Kodo Kawase	THz parametric sources and imaging applications	RIKEN, Japan
TUX	2	o	PL	Don Arnone	Terahertz Imaging and Spectroscopy for Homeland Security and Chemical Analysis Applications	Tera View, LTD, UK
TA1	1	o		Albert Pergande	A Polarametric Model for Millimeter Radiometry	Lockheed Martin
TA1	2	o		David Macfarlane	Long range, high resolution 94GHz FMCW imaging radar (AVTIS).	University of St Andrews
TA1	3	o		Mitsuru Toda	Development of a Millimeter Wave Magnetic Resonance Force Microscopy Probe	Research Center for Development of Far-Infrared Region University of Fukui
TA1	4	o		Nianhua Jiang	Stability of Preamplifier in 84 - 116 GHz Receiver	Herzberg Institute of Astrophysics, National Research Council
TA1	5	o		Marcin Lukasz Gradziel	Fast CAD software for the optical design of long wavelength systems.	Dep. of Exp. Physics, National University of Ireland Maynooth
TA1	6	o		Ge Wu	Design and Optimization of Resonant Mesh Filters for Space Applications	University of Wuppertal
TA2	1	o		Katsuhiro Ajito	Combined Terahertz spectral imaging and NIR Raman microscopy for the analysis of chromoprotein and chromohore films	NTT Basic Research Laboratories, Atsugi, Japan
TA2	2	o		Jyotsnamoy Dutta	Loss properties of SiC at Millimeter Wavelengths	North Carolina Central University
TA2	3	o		Boris Pradarutti	Extraordinary transmission through a high accuracy one dimensional periodic structure	TU Kaiserslautern
TA2	4	o		Vladimir Parshin	The 36 -360 GHz range resonator spectrometer for investigations of solid, liquid and gases dielectrics and metals.	Institute of Applied Physics of RAS, 46, Ulianov st., 603950, Nizhny Novgorod, Russia.
TA2	5	o		Masae Takahashi	The vibrational spectra of trehalose and glucose: terahertz spectroscopy and density functional theory calculations	Institute for Materials Research, Tohoku University
TA2	6	o		Sergey Ganichev	Manifestation of pure spin currents induced by spin dependent electron phonon interaction	Fakultaet Physik, University of Regensburg, 93040, Regensburg, Germany

TA3	1	o	K	Paul Woskov	Millimeter-Wave Measurements of Nuclear Waste Glass Melts	MIT
TA3	2	o		Seitaro Mitsudo	Non-thermal effects on B4C ceramics sintering	Research Center for Development of Far-Infrared Region, University of Fukui
TA3	3	o		Arne Fliflet	Self-consistent RF-Thermal Calculation of the Interaction of an 83 GHz beam with a Rotating Ceramic Cylinder	Naval Research Laboratory
TA3	4	o		Guido Link	Non-Thermal Effects of MM-Wave Sintering on the Microstructure of Zirconia Ceramics	Forschungszentrum Karlsruhe
TA3	5	o		Marcie Lombardi	Millimeter-Wave Sintering of Polycrystalline Ceramic Laser Materials	Naval Research Laboratory
TA4	1	o	K	Alexander Litvak	Recent Results in GYCOM / IAP Development of High-Power Gyrotrons for Fusion Installation	Institute of Applied Physics of RAS
TA4	2	o		Guenter Dammertz	Experimental results on the 140 GHz, 1 MW, CW gyrotrons for the stellarator W7-X	Forschungszentrum Karlsruhe
TA4	3	o		Kevin Felch	Recent advances in increasing output power and pulse duration in gyrotron oscillators	CPI
TA4	4	o		Shenggang Liu	The study on the Coaxial Gyrotron with Two Electron Beams	UEST
TA4	5	o		Eunmi Choi	Experimental Results for a 1.5 MW, 110 GHz Gyrotron with an Improved Cavity	MIT
TB1	1	o	K	Duncan Robertson	Centimetre resolution time domain reflectometry using ultra-short millimetre wave pulses.	University of St Andrews
TB1	2	o		Daniel Gordon	Phase Matched Optical Rectification as a Source of THz Radiation	Naval Research Laboratory
TB1	3	o		Jagadishwar Sirigiri	Frequency-Locked Terahertz Smith-Purcell Radiation	MIT Plasma Science and Fusion Center
TB1	4	o		Lee Spencer	Homodyne detection up to 2 THz using continuous wave laser diodes	University of Cambridge
TB1	5	o		Masato Suzuki	THz-TDS systems for 1560-nm-wavelength-laser operation	Institute of Laser Engineering, Osaka University
TB1	6	o		Roger Lewis	THz emission from (100) p-InAs	University of Wollongong
TB1	7	o		Andrea Doria	Reflective Terahertz Imaging at the ENEA FEL Facility	ENEA
TB2	1	o		Emilien Peytavit	ROOM TEMPERATURE TERAHERTZ MICROBOLOMETERS	CEA/LETI
TB2	2	o		X.S. Chen	First-principle study on the arsenic impurity and mercury vacancy in Hg1-xCdxTe	National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics,
TB2	3	o		Kenji Ikushima	Quantum-dot photon detectors and photon-counting terahertz imaging	Department of Basic Science, University of Tokyo, Japan
TB2	4	o		Chiko Otani	Detection of Direct and Indirect Terahertz Waves using a Nb-based Superconducting Tunnel Junction	RIKEN
TB2	5	o		Lei Liu	Performance at 585 GHz of Slot-Ring Antenna Coupled Nb HEB Mixers for Imaging Array Applications	University of Virginia
TB2	6	o		Mark Sherwin	Ultrafast tunable antenna-coupled quantum-well THz detectors operating above 100K	Physics Department, UCSB

TB2	7	o		Yahya Meziani	Non resonant detection of terahertz radiation by nanometer field effect transistors	Tohoku University
TB2	8	o		Eric Bryerton	Receiver Measurements of pHEB Beam Lead Mixers on 3-um Silicon	National Radio Astronomy Observatory
TB3	1	o		Alex Quema	Observation of below-bandgap excited terahertz emission in the action spectra of GaAs/AlGaAs multiple quantum wells	Institute for Molecular Science
TB3	2	o		Robert Hunter	Large Area W-band Quasi-Optical Faraday Rotators for Imaging Applications	University of St Andrews
TB3	3	o		Paul Cruickshank	Nanosecond risetime optically-activated mm-wave waveguide switch.	University of St Andrews
TB3	4	o		Nicolas Chimot	Terahertz radiation from ion irradiated InGaAs photoconductive antenna at 1.55 microns	institut d'électronique fondamentale, CNRS, France
TB3	5	o		Harvey Rutt	An Electrically Driven Mid-Infrared Solid State Modulator	Optoelectronics Research Center, University of Southampton, UK
TB3	6	o		Alex Quema	Channeling terahertz (THz) radiation into a Teflon photonic crystal fiber waveguide by means of a lens duct in a THz pigtail assembly	Institute for Molecular Science
TB3	7	o		Harish Manohara	Carbon Nanotube Schottky Diodes for High Frequency Applications	Jet Propulsion Laboratory- Caltech
TB4	1	o	K	Atsushi Kasugai	Development of a 170GHz High-Power and CW Gyrotron for Fusion Application	Japan Atomic Energy Research Institute
TB4	2	o		Bernhard Piosczyk	170 GHz, 2 MW Coaxial Cavity Gyrotron - experimental verification of the design of components	Forschungszentrum Karlsruhe, Germany
TB4	3	o		Kai Koppenburg	Recent results of the step-tunable 105-140 GHz, 1 MW gyrotron development at Foschungszentrum Karlsruhe	Forschungszentrum Karlsruhe
TB4	4	o		Stefan Illy	Collector sweeping systems for high power gyrotrons	Forschungszentrum Karlsruhe, Germany
TB4	5	o		Alexander Vlasov	COMPUTER SIMULATIONS OF GYROTRONS WITH COAXIAL CAVITIES	Science Applications International Corporation
TB4	6	o		Oliver Prinz	Investigations on mode converters for multi-frequency gyrotrons	Forschungszentrum Karlsruhe
TB4	7	o		Jianbo Jin	Investigation of an Advanced Quasi-Optical Mode Converter for a Coaxial Gyrotron	Forschungszentrum Karlsruhe, Germany
TC5	1	p		Alexander Krenitskiy	APPLICATION OF THE TERAHERTZ WAVES IN THERAPY	Open joint-stock company The Central Institute of Measuring Equipment, Saratov
TC5	2	p		Alexander Petrov	Mild Ablation of DNA, Enzymes, and Proteins under Submillimeter Irradiation of Free Electron Laser (FEL) with the Identification of Single Molecules	Institute of Chemical Kinetics and Combustion, Novosibirsk, Russia
TC5	3	p		Andrej Rytik	TERAHERTZ WAVES AND PERSPECTIVES OF DEVELOPMENT OF TERAHERTZ BIOMEDICAL TECHNOLOGIES	Open joint-stock company The Central Institute of Measuring Equipment, Saratov, Russia
TC5	5	p		Britta Redlich	Infrared Spectroscopy of (bio)molecules in the gas-phase using the free-electron-laser 'FELIX'	FELIX facility, FOM Rijnhuizen
TC5	6	p		Carole Tucker	Establishing the spectral characteristics of biological tissues in the millimetre- and submillimetre waveband using high sensitivity FT spectroscopic techniques.	Cardif University, UK
TC5	7	p		Kate Isaak	FTS measurements of V.fischeri and yeast culture samples in the (sub)millimetre waveband	Cardiff University
TC5	8	p		Kimihiro Norizawa	THz time-domain spectroscopy and vibration analysis of DNA-related base molecules	ISIR, Osaka University

TC5	9	p		Svetlana Parshina	THERAGERTZ THERAPY - A NEW METHOD	Open joint-stock company The Central Institute of Measuring Equipment, Saratov
TC5	10	p		Vladimir Tupikin	TERAHERTZ WAVES ELIMINATE THE DISTURBANCES	Open joint-stock company The Central Institute of Measuring Equipment, Saratov
TC5	11	p		Vyacheslav Meriakri	Nondestructive measurement of dielectric properties of glucose solutions in water in the millimeter-wave band and a problem of glucose determination in blood	institute of radio Engineering and Electronics RAS
TC5	12	p		Arsen Hakhoumian	Tunable THz wave difference-frequency generation in one-dimensional photonic band-gap structure	Department of Radiophysics, Yerevan State University, Yerevan, 1 Alek Manoogian,
TC5	13	p		Eisuke Saneyoshi	Rapid, ultrahigh-resolution terahertz time-domain spectrometer using two asynchronous-controlled femtosecond lasers	Osaka University
TC5	14	p		Haewook Han	THz photomixers with high impedance folded dipole antennas	Pohang University of Science and Technology
TC5	15	p		Helmut Essen	A Concealed Weapon Detection Demonstrator and the related Image processing	FGAN-FHR/MHS
TC5	16	p		Jingling Shen	Investigation on THz Fingerprint Spectral of Illegal Drugs	Capital Normal University, Beijing, China
TC5	17	p		John Rodgers	MINIATURE PLASMA CATHODE FOR HIGH-POWER TERAHERTZ OROTRON AND CLINOTRON OSCILLATORS	University of Maryland
TC5	18	p		Ken-ichi Sawanaka	Real-time one-dimensional terahertz time-domain spectroscopic imaging	Osaka University
TC5	19	p		Masato Suzuki	THz radiation from In[x]Ga[1-x]As (x=1, 0.53, 0.60) excited by femtosecond lasers at wavelengths of 1560, 1050, and 780 nm	Institute of Laser Engineering, Osaka University
TC5	20	p		Nicholas Karpowicz	Continuous-wave THz imaging for non-destructive testing	RPI
TC5	21	p		Futoshi KUROKI	Transmission Characteristics of NRD Guide as a Transmission Medium in THz Frequency Band	
TC5	22	p		Shukui Zhang	A Practical Approach to Improve the Temporal Resolution of Electro-optic Sampling Spectral Decoding for Short Terahertz Pulses	Thomas Jefferson National Accelerator Facility
TC5	23	p		Toshiaki Hattori	Spatial frequency filter for real-time THz imaging	University of Tsukuba
TC5	24	p		Vladimir Vaks	Investigation of mixers characteristic in the THz frequency range	Institute for physics of Microstructures RAS
TC5	25	p		Hynek Nemec	Ultrafast far-infrared dynamics probed by terahertz pulses	Institute of Physics, Academy of Sciences of the Czech Republic, Na Slovance 2, 182 21 Prague
TC5	26	p		Boris Knyazev	Terahertz imaging and holography with a high-power free electron laser	Budker Institute of Nuclear Physics
TC5	27	p		Chunli Fan	Investigation on Nondestructive Evaluation of Pipelines Using Infrared Thermography	Faculty 307, Shipping and Power College, Naval University of Engineering, Wuhan,
TC5	28	p		Chunli Fan	A General Quantitative Identification Algorithm of Subsurface Defect for Infrared Thermography	Faculty 307, Shipping and Power College, Naval University of Engineering, Wuhan,
TC5	29	p		Hongmei Zhong	Raman scattering in ZnMnO Based on Ion Implanted	National Laboratory for Infrared Physics, Shanghai Institute of Technical Physics,
TC5	30	p		Lu Chen	Molecular beam epitaxy growth of CdTe on Si(211)	Y. Z. Wang, Y. Wu, J. Wu, M. F. Yu, Y. M. Qiao, L. He
TC5	31	p		Shu Rong	The effect analysis of thermal reference resource performance in the high sensitive infrared scanner	Professor

TC5	32	p		Alexei Zrazhevsky	Polarization stereoradiovision in the MM wavelength region.	Institute of Radioengineering and Electronics, RAS
TC5	33	p		Dirk Nuessler	Vehicle classification by vibration analysis using millimeterwave sensors	FGAN-FHR/MHS
TC5	34	p		Franco Gandini	PROGRESS OF CW AND SHORT-PULSE CALORIMETRIC LOADS FOR HIGH POWER MILLIMETER-WAVE BEAMS	Istituto di Fisica del Plasma ENEA-CNR-EURATOM
TC5	35	p		Grigory Khlopov	Application of Millimeter Wave Sensors for Security Purposes	Institute of Radiophysics&Electronics National Academy of Science of Ukraine
TC5	36	p		Helmut Essen	COBRA-94 an Ultra Broadband Experimental Radar for ISAR Applications	FGAN-FHR/MHS
TC5	37	p		I.A. Gorelov	Diamond Gyrotron Windows on DIII-D*	General Atomics
TC5	38	p		Izumi S. Ohta	The first astronomical mm and submm observations with Multi-fourier transform interferometer	NAOJ-ATC
TC5	39	p		John Anthony Murphy	Quasi-optical millimeter-wave imaging with bio-medical applications	National University of Ireland, Maynooth
TC5	40	p		Jyotsnamoy Dutta	Analysis of a Fabry-Perot Open Resonator	North Carolina Central University
TC5	41	p		Lawrence Ives	Beam Optics Analysis – An Advanced 3D Trajectory Code	Calabazas Creek Research, Inc.
TC5	43	p		Leonid Bogdanov	3D Imaging System based on FMCW Millimeter Wave Radar	Project manager
TC5	44	p		Leonid Volkov	MMW Quasi-Optical Synthesis-Based Imaging for Security Applications	Secomtech Ltd., 24/2, 125, Prospect Mira, Fryazino, Moscow region, 141196, Russia
TC5	45	p		Leonid Volkov	Precisely-Determined Modulation Transfer Functions for MMW/SMMW Focal Plane Antenna Array Quasi-Optical Imagers	Secomtech Ltd., 24/2, 125, Prospect Mira, Fryazino, Moscow region, 141196, Russia

TC5	46	p		Leonid Volkov	Polarization-Sensitive MMW Outdoor and Indoor Quasi-Optical Imaging	Secomtech Ltd., 24/2, 125, Prospect Mira, Fryazino, Moscow region, 141196, Russia
TC5	47	p		Angela Fernandez	High power modulation experiments of the gyrotron radiation	EURATOM-CIEMAT Association for Fusion
TC5	48	p		Colin Joye	Design of a wideband 140 GHz, 1 kW Gyro-Amplifier	Masssachusetts Institute of Technology
TC5	49	p		Ahmed Al-Shamma	Tunable FEM System as a Plasma Source for Biological Applications	University of Liverpool
TC5	50	p		Georg Michel	A Mode Converter Design for Coaxial Gyrotrons	Max-Planck-Institut fuer Plasmaphysik, TI Greifswald, Germany
TC5	51	p		Hisanori Hoshizuki	Development of the material processing system by using a 300 GHz gyrotron	Research Center for Development of Far-Infrared Region, University of Fukui
TC5	52	p		Ilya Bandurkin	New schemes of gyro-devices with frequency multiplication	Institute of Applied Physics, Russian Academy of Sciences
TC5	53	p		Isamu Ogawa	Development of a Functional Quasi-optical System for Gyrotron Application as a Radiation Source	Research Center for Development of Far-Infrared Region, Fukui University
TC5	54	p		Isamu Ogawa	Plasma Scattering Measurement using a Submillimeter Wave Gyrotron as a Radiation Source	Research Center for Development of Far-Infrared Region, Fukui University
TC5	55	p		Lawrence Dressman	Design and Test of a 34 GHz Harmonic Peniotron	NSWC Crane
TC5	56	p		Lawrence Ives	Improved Cathodes for High Frequency RF Devices	Calabazas Creek Research, Inc.
TC5	57	p		M.V. Kartikeyan	Design Parameters of an Axially-Extracted Virtual Cathode Oscillator	Dept. of Electronics & Computer Engineering, Indian Institute of Technology Roorkee,
TC5	58	p		M.V. Kartikeyan	Design Studies on an 84 GHz, 500 kW, CW Gyrotron	Dept. of Electronics & Computer Engineering, Indian Institute of Technology Roorkee,
TC5	59	p		Marcie Lombardi	Optimized operation of an 83 GHz, 15 kW CW Gycom, Ltd. Gyrotron in a Material Processing System	Naval Research Laboratory
TC5	60	p		Masaki Kamada	High-power, Short-pulse, Large Orbit Gyrotron using a Pulsed-Power Generator gETIGO-IV h	Center for Development of Far-Infrared Region, University of Fukui
TC5	61	p		Melissa Hornstein	Design of a Step-Tunable THz Kilowatt Gyrotron Oscillator	Naval Research Laboratory
TC5	62	p		Ryotaro Inoue	Development of Compact Mobile THz-TDS Head	Inst. Laser Engineering, Osaka University
TC5	63	p		Ryotaro Inoue	Development of Optical Fiber-Probe Coupled Laser Terahertz Emission Microscope	Inst. Laser Engineering, Osaka University
TC5	64	p		Shinichiro Hayashi	Palmtop Terahertz wave parametric generators	RIKEN

WEX	1	o	PL	Charles Schmuttenmaer	Learning New Chemistry and Physics with THz Light	Department of Chemistry, Yale University
WEX	2	o	PL	Juergen Stutzki	THz Receivers for Astronomy	University of Cologne, Germany
WA1	1	o	K	François SIMOENS	Submillimeter bolometers large arrays for Herschel / PACS	CEA-LETI-SLIR
WA1	2	o		Stéphane Claude	The Band 3 Receiver (84-116 GHz) for ALMA	National Research Council - Canada
WA1	3	o		Philip Dindo	Design and Characterization of Two Sideband SIS Mixer RF Hybrids for the ALMA Band 3 Receiver	National Research Council, HIA
WA1	4	o		Kai-Yang Lin	Calibration System for the AMiBA Project	National Taiwan University
WA2	1	o	K	Kohji Yamamoto	Terahertz time-domain spectroscopy of ionic liquids and organic liquids	Osaka University
WA2	2	o		Mira Naftaly	Terahertz transmission spectroscopy of high-pressure flames	School of Electronic and Electrical Engineering, University of Leeds
WA2	3	o		Hitoshi Ohta	High Sensitive Detection of Sub-THz ESR Using the Cantilever and the Pulsed Magnetic Field	Molecular Photoscience Research Center, Kobe University, 1-1 Rokkodai, Nada, Kobe 657-
WA2	4	o		Sophie Matton	X.C. Shen	Dr
WA2	5	o		Mark Stringer	An investigation of beam focussing perturbations in THz transmission spectroscopy measurements	Institute of Microwaves and Photonics,University of Leeds
WA3	1	o	K	Toon Verhoeven	Design and test of a remote steering upper port launcher for ITER	FOM-Rijnhuizen
WA3	2	o		Waldo Bongers	Low- and high-power measurements on a remote steering upper port launcher mockup for ITER	FOM institute "Rijnhuizen", Nieuwegein,the Netherlands
WA3	3	o		Gerd Gantenbein	Progress Report on the ECRH Transmission System at the Stellarator W7-X	Institut fuer Plasmaforschung, Universitaet Stuttgart
WA3	4	o		Roland Heidinger	Structural integration of the EC wave launcher at the ITER upper port plug	Forschungszentrum Karlsruhe, Association FZK-EURATOM, Inst. for Materials Research
WA3	5	o		Adrian Cross	Compression of Frequency-Swept Microwave Pulses using a Helically Corrugated Waveguide	University of Strathclyde
WA4	1	o		Isamu Ogawa	High Quality Operation of a Submillimeter Wave Gyrotron	Research Center for Development of Far-Infrared Region, Fukui University
WA4	2	o		Gregory Denisov	Studying of the 95/285 GHz gyrotron with frequency multiplication	Institute of Applied Physics, Russian Academy of Sciences
WA4	3	o		Melissa Hornstein	CW Second Harmonic Results at 460 GHz of a Gyrotron Oscillator for Sensitivity-Enhanced NMR	Massachusetts Institute of Technology
WA4	4	o		Vladimir Zapevalov	Preliminary Project of the 400 GHz/200 W/CW second harmonic Gyrotron	Institute of Applied Physics
WA4	5	o		Toshitaka Idehara	Development of a THz gyrotron using a pulse magnet	Research Center for Development of Far-Infrared Region, University of Fukui
WA4	6	o		Yuri Kalynov	Large Orbit Gyrotron at Submillimeter Waves	Institute of Applied Physics, Russian Academy of Science, 46 Ulyanov St., Nizhny Novgorod,

WB1	1	o		Christian Frischkorn	Strongly coupled optical phonons in the ultrafast dynamics of electronic energy and current relaxation in graphite	Freie Universitaet Berlin, Physics Department, Germany
WB1	2	o		Cojocari Oleg	Low-Parasitic Schottky-Based Structures for THz Applications	Advanced Technologies group (ATech), Technical University of Darmstadt, Institut
WB1	3	o		Dae Sin Kim	The effects of the static and dynamic screening depending on the excitation aperture size and excitation level in photoconductive THz sources	Georgia Institute of Technology
WB1	4	o		Prashanth Upadhya	Ultra-broadband coherent terahertz spectroscopy using asymmetric excitation of photoconductive structures	University of Leeds, United Kingdom
WB1	5	o		Ruixiang GUO	Injection-seeded terahertz-wave generator pumped by an all-solid-state single-mode Q-switch YAG laser	Photodynnamics Research Center, RIKEN
WB1	6	o		Filip Kadlec	Optical rectification at metal surfaces	Insitute of physics, Academy of Sciences of the Czech Republic
WB1	7	o		Toshiaki Hattori	Large-aperture THz emitter with interdigitated electrodes	University of Tsukuba
WB1	8	o		Takashi Kondo	Terahertz radiation from high electron mobility transistors induced by ultrafast optical gate switching	Institute of Industrial Science, University of Tokyo, 4-6-1 Komaba, Meguroku, Tokyo 153-
WB2	1	o	K	Goutam Chattopadhyay	Future of Heterodyne Receivers at Submillimeter Wavelengths	Jet Propulsion Laboratory, California Institute of Technology
WB2	2	o		Andrey Baryshev	Waveguide sideband separating SIS mixer at 650 GHz	Kapteyn Astronomical Institute, The Netherlands
WB2	3	o		Jian-Rong Gao	A compact heterodyne receiver at 2.8 THz based on a quantum cascade laser and a superconducting bolometer	Space Research Organization Netherlands/ Delft University of Technology
WB2	4	o		Tjeerd Klaassen	Properties of a room temperature Terahertz detection array.	Kavli Institute of Nanoscience, Faculty of Applied Sciences, Delft University of
WB2	5	o		Jan Schuer	600 GHz GaAs Schottky Diode Mixer in Split-block Technology	Institute for Microwave Technology; University of Erlangen-Nuermberg; Germany
WB2	6	o		Daryoosh Saeedkia	A Photoconductor Photomixer Array Source with Integrated Excitation Scheme	University of Waterloo
WB3	1	o	K	Tony Heinz	Transient THz spectroscopy of single-wall carbon nanotubes	Columbia University
WB3	2	o		Michael Herrmann	THz time-domain spectroscopy of natural and artificial DNA	Institute of Scientific and Industrial Research, Osaka University
WB3	3	o		Mariko Yamaguchi	Terahertz spectroscopy of short peptides	Osaka University
WB3	4	o		Okan Esenturk	Ultrafast Transient THz Spectroscopy of Azobenzene	NIST, Guest Researcher
WB3	5	o		Rakchanok Rungsawang	Real-time spectral imaging of protein films using a tunable THz laser source	Materials Science Laboratory, NTT Basic Research Laboratories, Atsugi, Japan
WB3	6	o		M. Teranaka	Millimeter wave irradiation and invasion into living bodies using waveguide vent antenna with multi layers	School of Medicine, Kagawa University
WB3	7	o		Petr Kuzel	Ionization mechanisms of oxygen probed by terahertz pulses	Institute of Physics, Academy of Sciences of the Czech Republic

WB4	1	o		Anne Reilly	Opportunities in Pulsed Laser Deposition with the Thomas Jefferson National Accelerator Facility Free Electron Laser	College of William and Mary, VA
WB4	2	o		Michael Martin	Tailored terahertz pulses from a laser-modulated electron beam	Lawrence Berkeley National Laboratory
WB4	3	o		Michael Mross	A Tunable THz Source for Spectroscopy and Imaging Applications	Vermont Photonics LLC
WB4	4	o		Fuhua Wang	Storage ring THz Source at Mit-Bates	MIT Bates Linear Accelerator Center
WB4	5	o		Boris Knyazev	Novosibirsk terahertz Free Electron Laser: Status and survey of experimental results	Budker Institute of Nuclear Physics
WB4	6	o		Alan Todd	Transportable High Power THz Source	Advanced Energy Systems
WB4	7	o		Ivan Konoplev	Experimental study of a FEM based on 2D Distributed Feedback	Department of Physics, University of Strathclyde,107 Rottenrow, Glasgow,G4
WB4	8	o		G. Lawrence Carr	Characteristics and Applications of Intense Coherent THz Pulses from the NSLS SDL Linac	Brookhaven National Laboratory
WC5	1	p		Aleksey Kuleshov	On Necessary Conditions of Creation of Long-Living Electron Bunches in Reversing Periodical Magnetic Field	Institute for Radiophysics and Electronics of NAS of Ukraine, 12 ac. Proscura st., 61085
WC5	2	p		Alexandra Gurinovich	Volume free electron laser with a grid resonator	Research Institute for Nuclear Problems
WC5	3	p		Gopal Narayanan	Design and Characterization of a Sideband-Separation 1mm wavelength SIS Mixer/IF Module for use on a Focal-Plane Array	University of Massachusetts, Amherst
WC5	4	p		Kostyantyn Ilyenko	Synchronism Conditions for a Hybrid Weakly-Relativistic FEL	Institute for Radiophysics and Electronics of NAS of Ukraine
WC5	6	p		Yevgeni Myasin	Tuning of Two-Millimeter Wavelength Range Orotron with Accelerating Voltage up to 20 kV	Institute of Radioengineering and Electronics of RAS
WC5	7	p		Futoshi KUROKI	High Permittivity Tape Transmission Line for Millimeter-Wave Integrated Circuits	Kure National College of Technology, Japan
WC5	8	p		Oleksandr Sinitsyn	Nonlinear theory of the gyro-TWT with tapered parameters	IREAP, University of Maryland, College Park, MD 20742
WC5	10	p		Robert Jackson	Field Marshal Simulation Environment	Calabazas Creek Research
WC5	11	p		Roland Ngogang	Effect of stochastic electron motion on the output radiation in cyclotron masers	Institute for Research in Electronics and Applied Physics - University of Maryland
WC5	12	p		Ronald Vernon	Reflection and Transmission of a Gaussian Beam from a Dielectric Window at the Brewster Angle	University of Wisconsin - Madison, WI, USA
WC5	13	p		Shi-Chang Zhang	Suppression of the velocity-spread influence on a coaxial-waveguide cyclotron autoresonance maser	Institute of Photoelectronics
WC5	14	p		Stephen Harriet	Construction of an Experimental Large-Orbit Second-Harmonic Gyro-TWT Amplifier	NSWC Crane / UC Davis
WC5	15	p		Tomasz Rzesnicki	170 GHz, 2 MW Coaxial Cavity Gyrotron - design and experimental verification of the RF output system	IHM, FZK, Germany
WC5	16	p		Toshihiro Hori	Influence of beam current and cooling water temperature on the frequency characteristics	National Institute of Information and Communications Technology
WC5	17	p		Toshitaka Idehara	Development of high quality gyrotrons for plasma diagnostics	Research Center for Development of Far-Infrared Region, University of Fukui

WC5	18	p		Toshitaka Idehara	Development of a Large Orbit Gyrotron (LOG) operating at higher harmonics	Research Center for Development of Far-Infrared Region, University of Fukui
WC5	19	p		Wes Lawson	Cold Testing of a High Power Gyroklystron-Accelerator Interface	University of Maryland
WC5	20	p		Haewook Han	THz pulse near-field microscope with nanometer resolution	Pohang University of Science and Technology
WC5	21	p		Leonid Volkov	Analysis of possibilities of 3D quasi-optical imaging of remote concealed objects in MMW/THz spectral ranges	Secomtech Ltd., 24/2, 125, Prospect Mira, Fryazino, Moscow region, 141196, Russia
WC5	22	p		Liqun Song	Development of an X-Band, 50 MW, Multiple Beam Klystron	Calabazas Creek Research, Inc.
WC5	23	p		Makoto Hattori	Development of bolometric astronomical interferometer in mm and submm bands	Astronomical Institute, Tohoku University
WC5	24	p		Michael Read	Electron Beam Generation and Transport for mm and THz tubes	Calabazas Creek Research Inc.
WC5	25	p		Mikhail Gitlin	Imaging the Output Field Pattern of a 110 GHz Moderate-Power Gyrotron Using Recombination Continuum Emitted by a Slab of the Cs-Xe DC Discharge	Institute of Applied Physics, Russian Academy of Sciences, Nizhny Novgorod, Russia
WC5	26	p		Mohammad Araghchini	Three dimensional spiral inductors for high frequency applications	University of Tehran
WC5	28	p		Ron Gilgenbach	Cathode Priming of Magnetrons for Rapid Startup and Mode-Locking	University of Michigan
WC5	29	p		Sergei Kuznetsov	METAL GRIDS BASED INTERFERENCE FILTERS FOR MM- AND SUBMM-WAVELENGH RANGE	Budker Institute of Nuclear Physics, Novosibirsk, Russia
WC5	30	p		Shu Chen	Accurate measurement system for low loss materials	Tufts University
WC5	31	p		Valery Golunov	The potentialities of concrete and water surfaces identification in the MM wavelength band	Institute of Radioengineering and Electronics, RAS
WC5	32	p		Valery Golunov	Coherent and diffusive scattering properties of dry snow cover and man-made snowlike media.	Institute of Radioengineering and Electronics, RAS
WC5	33	p		Vladimir Kiseliov	A Terahertz Phase Frequency Changer with the Crystal Quartz Phase Sections	Usikov Institute for Radiophysics and Electronics,Usikov Institute for Radiophysics
WC5	34	p		Ahmed Al-Shamma	The dimensions of the electron beam tunnel in a folded waveguide TWT	University of Liverpool
WC5	35	p		Alex Quema	Zinc oxide single crystal as substrate for photoconductive antenna device generating radiation in the terahertz frequency region	Institute for Molecular Science
WC5	36	p		Arsen Hakhoumian	THz Band Low Loss Flexible Waveguide	Institute of Radiophysics and Electronics, Armenian Ac.Sci., Ashtarak-2, 378410,
WC5	37	p		Faeghe Amirzadeh	Mutual Coupling	university of Tehran,faculty of engineering,ECE.department , ANTENNA
WC5	38	p		Gerd Gantenbein	High-power tests and analysis of a remote steering launcher mock-up for ECRH on ITER	Institut fuer Plasmaforschung, Universitaet Stuttgart
WC5	39	p		Hadi Aliakbarian	Use of Computationally Efficient Method of Moments in the Optimization of Aperture Coupled Microstrip Antennas	Center of Excellence on Applied Electromagnetic Systems, ECE Dept., Faculty
WC5	40	p		Hadi Aliakbarian	Optimization of Aperture Shape in Aperture Coupled Microstrip Antennas Using Genetic Algorithm	Center of Excellence on Applied Electromagnetic Systems, ECE Dept., Faculty
WC5	41	p		Hojr Sedaghat-Pisheh	THE EFFECTIVE INDEX OF BRAGG RIB-WAVEGUIDE USING FINITE DIFFERENCE BEAM PROPAGATION METHOD	Department of Electrical and Computer Engineering,University of Tehran, Iran

WC5	42	p		Hojr Sedaghat-Pisheh	Design, simulation and fabrication of novel multi-band miniaturized antenna for wireless communication applications	Department of Electrical and Computer Engineering,University of Tehran, Tehran, Iran
WC5	43	p		Hojr Sedaghat-Pisheh	Design, Simulation, and Fabrication of On-Chip Conical Spiral Antennas for Millimeter-Wave Wireless Communications	Thin Film Laboratory,Department of Electrical and Computer Engineering,University of
WC5	44	p		Hong-Sheng Yang	A Novel Structure of Mixer Based on Circular Groove Guide	National Key Lab. of MMW
WC5	45	p		James Wiltse	Surface-Wave Propagation on Metal Wires at Millimeter-Wave and Terahertz Frequencies	Georgia Institute of Technology; Georgia Tech Reserach Institute
WC5	46	p		Masoud Koochakzadeh	Solution of the Vector Wave Equation for Dielectric Rod Waveguides Using the Modified Fourier Decomposition Method and Considering Radiation	University of Tehran
WC5	47	p		Masoud Koochakzadeh	Network Concept for the Semi-Analytic Determination of the Green's Function for the Aperture-Coupled Dielectric Resonator Antenna Problem	University of Tehran
WC5	48	p		Norbert Klein	2D electromagnetic bandgap slab structures for integrated millimetre wave circuits	Forschungszentrum Jülich GmbH, cni – Center of Nanoelectronics and Information
WC5	49	p		Paul Woskov	Transmission Lines for 250 and 460 GHz CW Gyrotron DNP Experiments	MIT
WC5	50	p		Reza Baghaee	FINDING THE UNKNOWN INDEX OF OPTICAL WAVEGUIDE BASED ON FINITE DIFFERENCE BEAM PROPAGATION METHOD USING GENETIC	Univ. of Tehran ECE Dept., Faculty of Eng., Center of Excellence on Applied
WC5	51	p		Reza Baghaee	FDTD ANALYSIS OF PROBE-FED RECTANGULAR DIELECTRIC RESONATOR ANTENNAS ON A FINITE GROUND PLANE	Univ. of Tehran ECE Dept., Faculty of Eng., Center of Excellence on Applied
WC5	52	p		Reza Baghaee	The Effect of Finite Ground Plane on Input Impedance of Probe-Fed Rectangular Dielectric Resonator Antennas Using Method of Moment	Univ. of Tehran ECE Dept., Faculty of Eng., Center of Excellence on Applied
WC5	53	p		Roland Heidinger	Design and performance tests of a high power torus window for a remotely steered EC launcher	Forschungszentrum Karlsruhe, Association FZK-EURATOM, Inst. for Materials Research
WC5	55	p		Toshiaki Nose	Transmission Properties of the Coplanar Waveguide Type Liquid Crystal Cell	Akita Prefectural University
WC5	56	p		Vladimir Parshin	Metals reflectivity at frequencies 100 - 360 GHz	Institute of Applied Physics of RAS, 46, Ulianov st., 603950, Nizhny Novgorod, Russia.
WC5	57	p		Vladimir Malygin	New HE11 corrugated waveguide components with minimal diffraction losses	Institute of Applied Physics, N. Novgorod, Russia

RUX	1	o	PL	George Neil	The JLab IR Upgrade FEL Facility	Jefferson Laboratory
RUX	2	o	PL	N.C. Luhmann, Jr.	COHERENT RADIATION SOURCES IN THE MILLIMETER AND SUBMILLIM	University of California, Davis
RA1	1	o		Peter Siegel	Multiple Frequency Submillimeter Wave Heterodyne Imaging	California Inst. of Technology
RA1	2	o		Jean Baubert	FTS measurements for the submillimeter heterodyne camera SHAHIRA	LERMA-Chalmers
RA1	3	o		Takeshi Yasui	Real-time two-dimensional terahertz tomography	Osaka University
RA1	4	o		Michael Johnston	Polarisation Sensitive THz Detectors	University of Oxford
RA1	5	o		Josef Kroell	Optical control in active terahertz waveguides	TU Wien, Photonik Institut, Gusshausstrasse 25-27, Vienna, Austria
RA1	6	o		John Cunningham	terahertz frequency range bandstop filters	University of Leeds
RA2	1	o		Haibo Liu	Diffuse Fresnel Reflection Spectroscopy of Explosive RDX by THz Time-domain Spectroscopy	Rensselaer Polytechnic Institute
RA2	2	o		Xiang Wan	Microwave Radiation on Biological Agents in Anthrax Spores	IEEE
RA2	3	o		Thomas Kleine-Ostmann	Characterization of building materials for the modeling of pico-cellular THz communication systems	Institut für Hochfrequenztechnik, TU Braunschweig, Schleinitzstr. 22, 38106
RA2	4	o		Konstantin Korolev	Complex Dielectric and Magnetic Parameters of Materials at Millimeter Wavelengths	Tufts University
RA2	5	o		Kazuya Nakayama	Temperature dependence of optical constants of silicon for short wavelength FIR laser lines.	Chubu University
RA2	6	o		Fatemah Al-Douseri	Quantitative Analysis of (o, m, p) Xylene in Gasoline by THz-Spectroscopy	Center for Terahertz Research at Rensselaer Polytechnic Institute
RA3	1	o	K	Gregory Denisov	A method of waveguide mode converter synthesis	Institute of Applied Physics, Russian Academy of Sciences
RA3	2	o		Michael Shapiro	Synthesis of Gyrotron Phase Correcting Mirrors Using Irradiance Moments	MIT Plasma Science and Fusion Center
RA3	3	o		Yuichiro Kogi	Development of new detector for millimeter wave imaging	Kyushu University
RA3	4	o		Ronald Vernon / Shaolin Liao	A New Algorithm for Calculating Fields Propagation between Arbitrary Smooth Surfaces	University of Wisconsin Madison
RA3	5	o		James Wiltse	Diffraction Optics for 90 GHz to 1.5 THz Frequencies	Georgia Institute of Technology; Georgia Tech Reserach Institute

RA4	1	o	K	Kwo Ray Chu	Dynamics of Mode Competition in the Gyrotron Backward-Wave Oscillator	National Tsing Hua University
RA4	2	o		Chad Marchewka	Non-uniform Cathode Emission Studies of a MIG Gun	MIT PSFC
RA4	3	o		Muralidhar Yeddulla	Excitation of gyro-peniotron mode in the presence of a gyrotron mode	IREAP, University of Maryland, College Park
RA4	4	o		Ronald Vernon	Improved Performance of Three-Mirror Beam-Shaping Systems and Application to Step-Tunable Converters	University of Wisconsin-Madison, USA
RA4	5	o		Xiaokang Yang	Progress towards optimization of phase-correcting mirrors for a multifrequency gyrotron	IHM, Forschungszentrum Karlsruhe (FZK), Germany
FRX	1	o	PL	Mark Rodwell	InP HBT Digital ICs and MMICs in the 140-220 GHz band	University of California, Santa Barbara
FRX	2	o	PL	Huei Wang	Researches and Applications of Monolithic Millimeter-wave Integrated Circuits at National Taiwan University	NTU, Taiwan
FA1	1	o		Paolo Focardi	Design Guidelines fot Terahertz Mixers and Detectors	Jet Propulsion Laboratory, California Institute of Technology
FA1	2	o		Hirori Hideki	Interfarence Effect on the Surface Plasmon Excitaion	Department of Physics, Kyoto University
FA1	3	o		Masahiko Tani	Detection of THz radiation with Schottky photoconductive antenna	Institute of Laser Engineering, Osaka University
FA1	4	o		Hirohisa Nagata	Cryogenic Readout Integrated Circuits for Submillimeter-wave Camera	National Astronomical Observatory of Japan
FA2	1	o		Heinz-Wilhelm Huebers	Frequency Tunable Terahertz Silicon Laser	German Aerospace Center (DLR), 12489 Berlin, Germany
FA2	2	o		Vladimir Kozlov	Frequency tunable THz source based on cascaded optical down-conversion in orientation patterned GaAs	MIcrotech Instruments, Inc.
FA2	3	o		Haiyong Xu	Planar multi-diode sideband generators for terahertz applications	University of Virginia, Charlottesville, VA 22903
FA2	4	o		Michael Theuer	Terahertz Generation from MgO:LiNbO3 crystal using a Femtosecond pumped Enhancement Cavity	RIKEN Institute (Japan), University of Kaiserslautern (Germany)
FA2	5	o		Mitsuhiro Hanabe	Highly frequency-tunable terahertz plasmon-resonant photomixer with super-grating gate structure	Kyushu Institute of Technology
FA2	6	o		Asu Jha	High-power GaN-HEMT devices operating at MM-wave Frequencies	Jha Technical Consulting Services, Cerritos, CA 90703
FA3	1	o	K	Masatsugu Yamashita	Backside Observation of MOSFET Chips Using an Infrared Laser Terahertz Emission Microscope	RIKEN
FA3	2	o		Hideaki Kitahara	Application of THz imaging for biological tissues	Institute of Laser Engineering, Osaka University
FA3	3	o		Sangwook Han	Multilayer Fabry-Perot Microbolometers for Infrared Detection	Microelectronic Research Center, Univ. of Texas at Austin
FA3	4	o		Yoshiaki Sasaki	Noninvasive detection of concealed powders using terahertz wave scattering	RIKEN
FA3	5	o		Sangwook Han	Design of Broadband or Wavelength Selective Planar Multi-mode Microbolometer Infrared Detectors	Microelectronic Research Center, Univ. of Texas at Austin

FA4	1	o	K	Monica Blank	Development and Demonstration of a Broadband W-Band Gyro-TWT Amplifier	CPI
FA4	2	o		Neville C. Luhmann, Jr.	UC Davis 94 GHz Gyrotron Traveling-wave Amplifier Developments	University of California, Davis
FA4	3	o		Wes Lawson	Design And Cold-Testing of a High Gain, Ku-Band Gyroklystron	University of Maryland
FA4	4	o		Michael Read	Design of a 25 MW 30 GHz Gyroklystron with an Inverted MIG	Calabazas Creek Research Inc.
FA4	5	o		Pu-Kun Liu	Development of a Ka-Band Second Harmonic Gyroklystron Amplifier	Institute of Electronics, Chinese Academy of Sciences