ISSTT2012 Program

April 2nd (Monday)

8:45 Registration

9:15 Opening Talk

9:20-9:50 Invited Talk			session chair: Brian Jackson
I-1	Pajot, François	IAS	Planck : performance of the HFI instrument during 30 months of operation in space

9:50-10:50 THz Systems I

	Huebers, Heinz-Wilhelm		Progress toward a 4.7-THz front-end for the GREAT heterodyne spectrometer on SOFIA		
C-2	Emrich, Anders	Omnisys Instrument	The STEAMR instrument		
C-3	Reck, Theodore	I.IPI /(:altech	PASEO – An integrated Radiometer and Spectrometer for Improved Planetary Science		

10:50-11:10 Coffee Break

11:10-12:30 Coherent Detectors I

11:10-12:30 Coherent Detectors I			session chair: Takashi Noguchi
C-4	Shan, Wenlei	РМО	An Integrated SIS Multibeam Receiver for Terahertz Astronomical Observation
C-5	Puetz, Patrick	KOSMA	Characterisation of Local Oscillator Noise with a 400 - 500 GHz Integrated Balanced SIS Receiver
C-6	Tong, Edward	SAO	Wideband SIS Receivers Using Series Distributed SIS Junction Array
C-7	Groppi, Chris	Arizona State University	The Kilopixel Array Pathfinder Project (KAPPa), a 16 pixel integrated SIS focal plane array

12:30-14:00 Lunch

14:00-14:30 Invited Talk			session chair: Imran Mehdi
I-2	Griffin, Matt	Cardiff University	Herschel-SPIRE Performance and Science Highlights

14:30-15:30 Coherent Detectors II

C-8	Richter, Heiko	плк	A 2.5-THz heterodyne spectrometer front-end integrated in a pulse-tube cooler
C-9	Treuttel, Jeanne		A Novel 330 GHz Sub-Harmonic Mixer with Independently Biased Schottky Diodes
C-10	Rea, Simon	RAL	A Compact 340 GHz Receiver Array Front-End

15:30-16:30 Coffee Break and Poster Session

16:30-17:00 Invited Talk			session chair: Sergey Shitov
I-3	Hasegawa, Tetsuo	NAOJ	ALMA: status of construction and the initial observations

17:00-18:30 ALMA

C-11	Yassin, Ghassan	University of Oxford	The Prospects of THz Technology for ALMA'Band 11'
C-12	Hwang, Yuh-Jing	ASIAA	Development Progress and Production Plan of ALMA Band- 1 Receivers in Taiwan
C-13	Tan, Boon Kok	University of Oxford	A 700 GHz Integrated Balanced SIS Mixer
C-14	Fujii, Yasunori	NAOJ	Performance of the first six ALMA Band 10 receivers

April 3rd (Tuesday)

9:00-	-9:30 Invited Talk		session chair: Shuji Matsuura
I-4	Otsuji, Taiichi	Tohoku University	Emission and Detection of Terahertz Radiation Using Two- Dimensional Electrons in III-V Semiconductors and
9:30-	-10:30 THz Systems I	I	
		University of	Development of an ultra-sensitive far-infrared detector

Ŭ	10	Ninoi, Nyota	Tsukuba	based on double quantum-well structure
C-	16	Probst, Petra	Karlsrue Institute of Technology	YBa2Cu3O7-high-speed detectors for picosecond THz pulses
C-	17	Bevilacqua, Stella	Chalmers University of Technology	Fast room temperature THz microbolometers

10:30-10:50 Coffee Break

10:50-12:30 THz components session chair: Kamaljeet Saini

C-18	Crowe, Thomas	Virginia Diodes Inc.	Multiplier-based Sources for 3THz and Beyond
C-19	Siles, Jose	JPL/Caltech	Enabling Compact Multi-Pixel Heterodyne Terahertz Receivers Using On-Chip Power-Combined Multiplied
C-20	Morgan, Matt	NRAO	Graphical Prediction of Trapped Mode Resonances in Sub- mm and THz Networks
C-21	Wollack, Edward	GSFC/NASA	High Absorptance Coatings for THz Applications
C-22	Nitta, Tom	University of Tsukuba	Beam Pattern Measurements of Millimeter-wave MKIDs Camera with Direct Machined Silicon Lens Array

12:30-14:00 Lunch

14:00-14:30 Invited Talk			session chair: Charles Cunningham
I-5	Roelfsema, Peter	SRON	Herschel-HIFI THz technology in action for astrophysics

14:30–15:30 THz Systems III An Optical Design Concept for Future Heterodyne Instrumentation in Space C-24 Matsuo, Hiroshi NAOJ Photon Counting Terahertz Interferometry C-25 Baryshev, Andrey SRON Interferometry using dual photon response of submm direct detectors

15:30-16:30 Coffee Break and Poster Session

16:30-18:30 SPICA and Incoherent Detector session chair: Ken Wood

C-26	Nakagawa, Takao	JAXA	The next-generation infrared space mission SPICA
		SRON	The SAFARI Imaging Spectrometer for the SPICA space
0-27	Roelfsema, Peter		observatory
C-28	Gao, Jian Rong	SRON	TES technology for SPICA-SAFARI
0-20	Morozov Dmitry	Cardiff	Optical performance of ultrasensitive FIR TES detectors for
0-29		University	future space missions
C-30	den Hartog,	SRON	Frequency Division Multiplexed readout of TES detectors
0-30	Roland		with Baseband Feedback
C-31	Bradford, Matt	JPL/Caltech	BLISS and Ultrasensitive Bolometers for SPICA

Banquet (19:00-21:00)

April 4th (Wednesday)

9:00–9:30 Invited Talk			session chair: Karl Schuster
I-6	Hazumi, Masashi	КЕК	LiteBIRD: A Small Satellite for the Studies of B-mode Polarization and Inflation from Cosmic Background Radiation Detection

9:30-10:30 LiteBIRD and Incoherent Detectors II

C-32	Karatsu, Ken'ichi	INAUL	Development of 1000 arrays MKID Camera for the CMB Observation
C-33	Koga, Kensuke		Development of TiN-MKIDs for CMB polarization observations
C-34	Suzuki, Aritoki	III(:Korkolov	Multi-chroic dual-polarization bolometric focal plane for studies of the Cosmic Microwave

10:30-11:00 Coffee Break

session chair: Chiko Otani 11:00-12:20 Incoherent Detectors III

C-35	Endo, Akira	Delft University of Technology	DESHIMA: Redshift Machine Based on an On-chip Filterbank
C-36	Roesch, Markus		Dual polarization Lumped Element Kinetic Inductance Detectors (LEKID) for 1.25 and 2.05mm
C-37	Ferrari, Lorenza	SRON	Taking a snapshot of KIDs
	Chattopadhyay, Goutam	I PI / Caltech	Ultra-Compact Superconducting Spectrometer on a Chip at Submillimeter Wavelengths

12:20-14:00 Lunch

14.00-14.30 Invited Talk

14:00-14:30 Invited Talk			session chair: Wolfgang Wild
I-7	Chen, Ming-Tang	ΔΔΙΔΔ	THE YUAN-TSEH LEE ARRAY FOR MICROWAVE BACKGROUND ANISOTROPY

14:30-15:30 THz Systems IV

C-39	Shi, Sheng-Cai	PMO	Development of THz Superconducting Receivers for DATE5
C-40	Blundell, Raymond	SAO / ASIAA	A New Telescope for Ground-based THz Astronomy
C-41	Smirnov, Andrey	Astro Space Center	THz space mission Millimetron

15:30-16:30 Coffee Break and Poster Session

16:30-17:50 Coherent Detectors III session chair: Alain Maestrini

	l (initeman	Pedagogical	Study of the superconductor-normal metal interface in hot- electron bolometer mixers
C-43	Shiino, Tatsuya	-	The 0.9 and 1.3 THz Superconducting HEB Mixer Receiver for the ASTE 10 m Telescope
C-44	Zhang, Wen	PMO	A 1.4-THz Superconducting HEB Mixer for DATE5
C-45	Ren, Yuan	-	Stabilized HEB-QCL heterodyne spectrometer at super- terahertz

Conference Summary

Adjourn

Poster Presentations

P-1Mizobuchi, SatokoJAXASpectrometer) of Superconducting Submillimeter–Wave Limb–Emission Sounder (JEM/SMILES)P-2Schlecht, ErichJPL/CaltechTerahertz Radiometer for Outer Planet and Moon Atmospheres (TROPA)P-3Whale, MarkUniversity of BernThe STEAMR Instrument: Optical Design, Development a TestingP-4Emrich, AndersOmnisys InstrumentPossible Swedish contributions to the FIRE instrumentP-5Krus, M.Omnisys InstrumentSpectrometers for THz space applicationsP-6Risacher, ChristopheMPIfRGREAT : Successful first year of science operationP-7Risacher, ChristopheMPIfRExtension of GREAT into a first heterodyne array for far infrared spectroscopy with SOFIAP-8Chen, ZheUniversity of Electronic Science and TechnologyDevelopment of a 220–GHz Schottky Diode Subharmonic Mixer				In white Chald little Eventuation of the AOC (Assume Continue)
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