
Workshop on Submillimeter-Wave Receiver Technologies in Eastern Asia November 14 (Sunday) -16 (Tuesday) , 2010 (Toyota auditorium of Nagoya University)

http://www.a.phys.nagoya-u.ac.jp/workshop/rxws11/

- -Solar-Terrestrial Environment Laboratory of Nagoya University
- -Osaka Prefecture University
- -Advanced Technology Center, National Astronomical Observatory of Japan and ALMA Project Office, National Astronomical Observatory of Japan

2010/11/14

12:50-13:00 Workshop opening and welcome talk

13:00-15:20 Project status report

[1] 13:00-13:20 Kenichi Kikuchi (ISS Science Project Office)
How to Launch SIS Mixer Into Space - In the Case of JEM/SMILES

[2] 13:20-13:40 Taku Nakajima (Nobeyama Radio Observatory)
The New Observation System for the NRO 45-m Millimeter Wave Telescope

[3] 13:40-14:00 Zhen Lou (tentative) (Purple Mountain Observatory) Research and Development Activities at PMO Purple Mountain Observatory

[4] 14:00-14:20 Hirofumi Inoue (The University of Tokyo) Heterodyne Receivers on ASTE

[5] 14:20-14:40 Atsushi Nishimura (Osaka Prefecture University)
The 1.85m Mm-Submm Telescope for Large Scale Molecular Cloud Survey

[6] 14:40-15:00 Do-Heung Je (Korea Astronomy & Space Science Institute) The Status of Phase Compensation System Development for KVN Receivers

[7] 15:00-15:20 Yasuo Fukui (Nagoya University Southern Observatory) NANTEN 2 Project

15:20-15:30 Break

15:30-17:30 Submm mixers and detectors

[8] 15:30-15:50 Hsian-Hong Chang (Academia Sinica Institute of Astronomy and Astrophysics) Superconducting SIS Mixers with Vertically Stacked Junctions [9] 15:50-16:10 Matthias Kroug (National Astronomical Observatory of Japan) SIS Mixers for the 790 - 950 GHz Band

[10] 16:10-16:30 Ming-Jye Wang

(Academia Sinica, Institute of Astronomy and Astrophysics)

Development of Superconducting Devices in ASIAA: Current status and Future Plans

[11] 16:30-16:50 Masato Naruse (National Astronomical Observatory of Japan)

Development of a Sub-Millimeter Camera With Superconducting Resonators

[12] 16:50-17:10 Hiroki Watanabe (GUAS/KEK)

Development of Microwave Kinetic Inductance Detectors (MKIDs) for Cosmic Microwave Background Polarization Detection With the LiteBIRD Satellite

[13] 17:10-17:30 Takashi Noguchi (National Astronomical Observatory of Japan)
Imaginary Part of the Superconducting Gap Energy and Its Influence on
Low-Temperature Devices

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9:00-10:20 SIS mixers and receivers

[14] 9:00-9:20 Chao-Te Li

(Academia Sinica Institute of Astronomy and Astrophysics)

SIS Mixer Development for the Submillimeter Array at ASIAA

[15] 9:20-9:40 Koichi Kuroiwa

(National Astronomical Observatory/Osaka Prefecture University)

Performance of Superconducting NbTiN Waveguide for Terahertz SIS Mixer

[16] 9:40-10:00 Dong Liu (tentative) (Purple Mountain Observatory)

345GHz Superconductor Integrate Receiver Development for POST

[17] 10:00-10:20 Shen Li (tentative) (Purple Mountain Observatory)

A Multi-Beam 2SB Receiver for Millimeter-Wave Radio Astronomy

10:20-10:30 Break

10:30-11:45 Poster Sessions

12:00-18:00 Excursion

18:00-20:00 Banquet

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9:00-10:00 New telescopes and related technology

[18] 9:00-9:20 Tomoo Nagahama (STEL Nagoya University)

Millimeter Wave Band Observations of Middle Atmosphere

[19] 9:20-9:40 Hiroyuki Maezawa (STEL/NUSO Nagoya University)

Milli/Submillimeter Wave Band Observations of Planetary Atmosphere,

Development of THz Band HEB mixer

[20] 9:40-10:00 Masumichi Seta (The University of Tsukuba)

Radio Astronomy at Dome Fuji in Antarctica

[21] 10:00-10:20 Hiroshi Matsuo (National Astronomical Observatory of Japan)

A Study on Antarctica Terahertz Interferometer

10:20-10:30 Break

10:30-12:10 LO and optics

[22] 10:30-10:50 Yue-Fang Kuo

(Academia Sinica Institute of Astronomy and Astrophysics)

Phase-locked Broadband VCO Module for Millimeter-wave

Astronomical Local Oscillator Sources

[23] 10:50-11:10 Yun-Chih Chou

(Academia Sinica Institute of Astronomy and Astrophysics)

A New 660 GHz Local Oscillator Subsystem for Sub-

Millimeter Array

[24] 11:10-11:30 Satoshi Ochiai

(National Institute of Information and Communications Technology)

The Gunn Oscillator Failure and a Premature Termination of SMILES

[25] 11:30-11:50 T. Nitta (National Astronomical Observatory of Japan)

Development of Silicon Lens Array For Submillimeter Camera

and Design of Broadband Antireflective Structure

11:50-13:00 Lunch

13:00-14:40 ALMA and related technology

[26] 13:00-13:20 Yutaro Sekimoto (National Astronomical Observatory of Japan)

Progress of ALMA Band 4 and Band 8 Pre-Production Cartridges

[27] 13:20-13:40 Y. Fujii (National Astronomical Observatory of Japan)

Development of the 787-950 GHz Alma Band 10 Cartridge

[28] 13:40-14:00 Alvaro Gonzalez (National Astronomical Observatory of Japan)

Beam Performance Characterization of ALMA Band 10Cartridge

[29] 14:00-14:20 Fong-Chi Hsu

(Academia Sinica, Institute of Astronomy and Astrophysics)

ALMA band-10 mixer development in ASIAA

[30] 14:20-14:40 C.-C. Chiong

(Academia Sinica, Institute of Astronomy and Astrophysics)

Designs and Measurements of Cryogenic MMIC LNA for ALMA Band-1

14:40-14:55 Discussion

14:55-15:00 Closing remarks