



Sixth International Symposium on Space Terahertz Technology



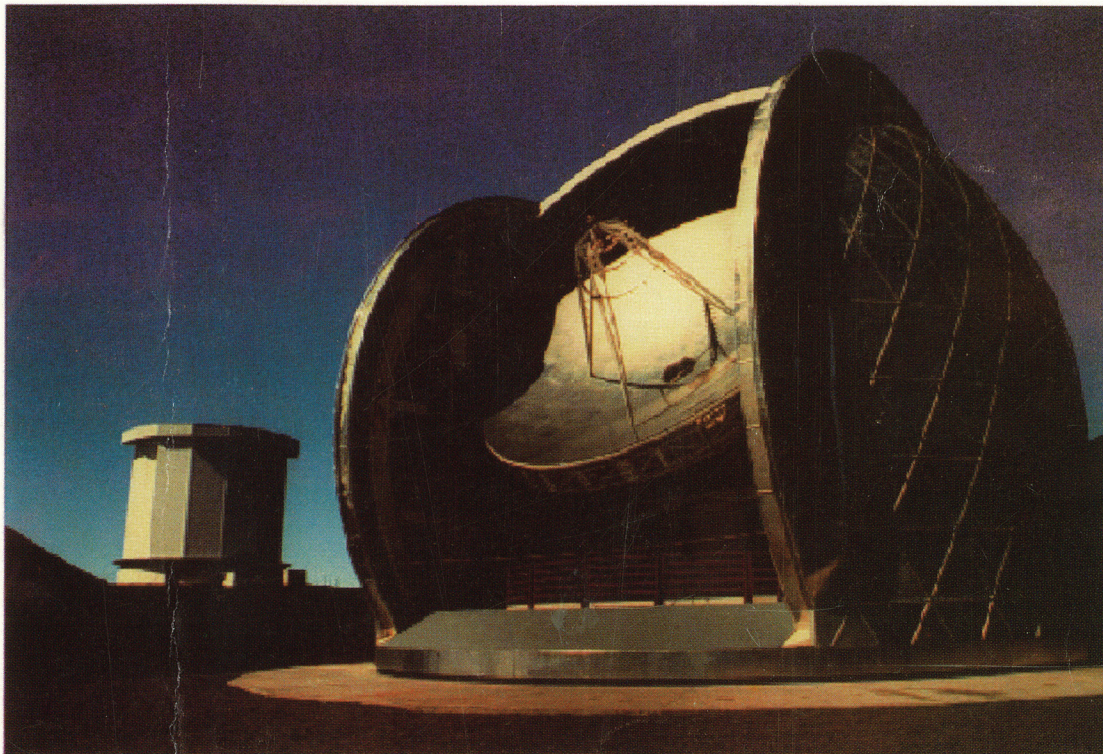
JPL

March 21-23, 1995



Beckman Institute Auditorium
California Institute of Technology
Pasadena, California

SYMPOSIUM PROCEEDINGS



Caltech Submillimeter Observatory on Mauna Kea, Hawaii

Sponsored by: NASA Office of Advanced Concepts and Technology, University Space Engineering Research Centers Program.

Co-sponsored by: IEEE Microwave Theory and Techniques Society.

Organized Jointly by: California Institute of Technology, The University of Michigan's NASA Center for Space Terahertz Technology, and JPL's Center for Space Microelectronics Technology.

PROCEEDINGS
of the
**SIXTH INTERNATIONAL SYMPOSIUM ON
SPACE TERAHERTZ TECHNOLOGY**

Tuesday-Thursday, March 21-23, 1995

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Organized Jointly by: California Institute of Technology, The University of Michigan's NASA Center for Space Terahertz Technology, and JPL's Center for Space Microelectronics Technology.

Organizing Committee

Symposium Co-chairs:

Jonas Zmuidzinas, Caltech
Gabriel M. Rebeiz, University of Michigan

Technical Co-chair:

William R. McGrath, Jet Propulsion Laboratory

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GROUP PHOTO



PREFACE

The Sixth International Symposium on Space Terahertz Technology was held at the California Institute of Technology in Pasadena, California, on March 21–23, 1995. The Symposium was attended by approximately 110 scientists and engineers from the U. S., Europe, Russia, and Japan. The theme of the Symposium centered on the generation, detection, and manipulation of radiation in the terahertz spectral region for space applications including astronomy and remote sensing of the Earth's atmosphere. The program included eleven sessions covering a wide variety of topics including Schottky, SIS, and hot electron bolometer mixers; local oscillators including fundamental sources and varactor frequency multipliers; and various techniques involving optics, antennas, and micromachining. In addition, several invited presentations outlined the recent progress and future opportunities in ground-based, airborne, and space observatories for submillimeter astronomy.

The Symposium was sponsored by the NASA Office of Advanced Concepts and Technology, University Space Engineering Research Centers Program, and was organized jointly by California Institute of Technology, The University of Michigan's NASA Center for Space Terahertz Technology, and JPL's Center for Space Microelectronics Technology. The Microwave Theory and Techniques Society of IEEE served as a cooperative sponsor of the Symposium.

The Seventh International Symposium on Space Terahertz Technology will be held at the University of Virginia in Charlottesville, Virginia on March 12–14, 1996.

Jonas Zmuidzinas, Caltech
Gabriel Rebeiz, University of Michigan
Fawwaz T. Ulaby, University of Michigan
Carl Kukkonen, Jet Propulsion Laboratory

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