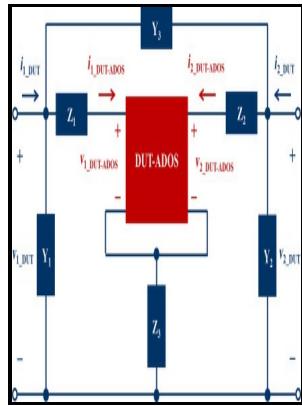


Instrumentation for submillimeter spectroscopy - 5-6 December 1985, Cannes, France

International Society for Optical Engineering - Instrumentation for submillimeter spectroscopy; Proceedings of the Meeting, Cannes, France, December 5, 6, 1985 (Conference)

Description: -



- Radio astronomy -- Congresses.
Plasma (Ionized gases) -- Congresses.
Submillimeter waves -- Congresses.
Microwave spectroscopy -- Congresses. Instrumentation for submillimeter spectroscopy - 5-6 December 1985, Cannes, France

- Report - Institute on Human Values in Medicine -- [no. 15.] v. 598.
Proceedings of SPIE--the International Society for Optical Engineering ; v. 598
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Tags: #Allan #Variance #Use #in #Radio

Phaselock system for millimeter

Abstract The conference presents papers on the architectures, algorithms, and applications of image processing. Special emphasis is given to candidate components for the 8-m heterodyne FIR and Submm Space Telescope being developed by ESA. The SWAS Acousto-Optical Spectrometer; M.

Allan Variance Use in Radio

Topics examined include superconducting mixers, Schottky-diode mixers, local oscillators, antennas and quasi-optical components, spectrometry, and systems aspects.

Phaselock system for millimeter

He reports on an extensive series of measurements of bandwidth, photoconductive gain, and direct detection responsivity for a series of highly compensated, NTD detectors grown specifically for this purpose. The described PLL system is used in radio astronomy and laboratory molecular spectroscopy.

AIREX: Instrumentation for submillimeter spectroscopy; Proceedings of the Meeting, Cannes, France, December 5, 6, 1985

Topics discussed include far-IR and IR spectroscopy of methanol applied to FIR laser assignments; far-IR spectra of some small molecules; far-IR nonlinear optics; the optical polarizing effect of paper at submm wavelengths; the far-IR dielectric properties of adsorbed water in a cellulose-air matrix; and a precision broadband far-IR attenuator. We have published our ideas about the use of Allan variance plots many years ago, and for this you might have a look on the following papers: Characterization and Measurement of Radiometer Stability; G. Influence of the laser characteristics on laser-sampling inductively coupled plasma-mass spectrometry, high-precision measurements of stellar radial velocity variations,

and the on-line spectroscopic monitoring of metal ions for environmental and space applications using photodiode-array spectroscopy are covered.

**Architectures and algorithms for digital image processing; Proceedings of the Meeting, Cannes, France, December 5, 6, 1985
(Conference)**

A frequency-agile heterodyne phaselock loop PLL system for millimeter-wave Gunn-effect oscillators between 40 and 110 GHz is described. Special emphasis is given to candidate components for the 8-m heterodyne FIR and Submm Space Telescope being developed by ESA.

Phaselock system for millimeter

Particular attention is given to determining the pose of an object, adaptive least squares correlation with geometrical constraints, and the reliable formation of feature vectors for two-dimensional shape representation.

Instrumentation for submillimeter spectroscopy; Proceedings of the Meeting, Cannes, France, December 5, 6, 1985

Special emphasis is given to candidate components for the 8-m heterodyne FIR and Submm Space Telescope being developed by ESA.

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