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誘電体カロリーメータ用極低温動作低雑音増幅MMICの検討

- The Study of a LNA MMIC in Ultra-Low Temperature for a Dielectric Micro-Calorie Meter -



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Institute of Space and Astronautical Science

Background and Purpose:

X-ray satellites history in japan

▶ 1979 HAKUCHO TENMA, GINGA, ASUKA ➢ 2005- SUZAKU ➢ 2014- Astro-H

UZAKU | ASTRO-EI SUZAKU X-ray phenomena

explosion

Important abilities

of detectors for X-rays

- Imaging performance
- > spectral performance

CCD

Detectors



Diffraction



X-ray spectrum by SUZAKU CCD

DMC system

XRS

- Black-hole
- Supernova explosion
- Active galactic nuclei
- Space high-temperature plasma



nuclei



Proportional

counter

LNA of DMC system:



Measurement and results:





