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## Distributed Antenna-coupled TES for FIR detector arrays

06.21.2007

**Keywords** TES, antenna, FIR

**Abstract** We describe a new architecture for a superconducting detector for the submillimeter and far-infrared. This detector uses a distributed hot-electron transition edge sensor (TES) to collect the power from a focal-plane-filling slot antenna array. The sensors lay directly across the slots of the antenna and match the antenna impedance of about 30 ohms. Each pixel contains many sensors that are wired in parallel as a single distributed TES, which results in a low impedance that readily matches to a multiplexed SQUID readout. These detectors are inherently polarization sensitive, with very low cross-polarization response, but can also be configured to sum both polarizations. The dual-polarization design can have a bandwidth of 50% The use of electron-phonon decoupling eliminates the need for micro-machining, making the focal plane much easier to fabricate than with absorber-coupled, mechanically isolated pixels. We discuss applications of these detectors and a hybridization scheme compatible with arrays of tens of thousands of pixels.

**PACS numbers:**

### 1 Introduction

The next generation of astronomical instruments for Submillimeter and FIR wavelengths will require arrays of tens of thousands of pixels. For example, the proposed Caltech-Cornell Atacama Telescope will need 32,000 pixels at 620, 450, 350 and 200 microns to fully sample its field of view. The Single Aperture Far-Infrared Observatory (SAFIR) mission, still a priority of the science community,

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# Distributed Antenna Coupled Tes For Fir Detector Arrays

**Yi-Tong Ma**



## **Distributed Antenna Coupled Tes For Fir Detector Arrays:**

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Optical, Infrared, and Millimeter Space Telescopes ,2004    Energy Research Abstracts ,1984 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number indexes    Technical Information Indexes United States. Naval Air Systems Command,1976    **Technical Abstract Bulletin** ,1978    *Scientific and Technical Aerospace Reports* ,1992    *Government Reports Announcements & Index* ,1976    **Science Abstracts** ,1993    **International Aerospace Abstracts** ,1999    **Proceedings of the IRE.** Institute of Radio Engineers,1955    Electrical & Electronics Abstracts ,1989    Government Reports Annual Index , Sections 1 2 Keyword Index Section 3 Personal author index Section 4 Corporate author index Section 5 Contract grant number index NTIS order report number index 1 E Section 6 NTIS order report number index F Z    *NASA SP.* ,1986

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*Radiation Patterns of Antenna Arrays Consisting of Dipoles Coupled to a Two-wire Line* KUN-MU. CHEN,HARVARD UNIV CAMBRIDGE MA CRUFT LAB.,1960

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