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Distributed Antenna-coupled TES for FIR detector arrays

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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

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