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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 50The 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

Guillaume Favre



Distributed Antenna Coupled Tes For Fir Detector Arrays:

Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office, 2002 **Энергетическая релаксация квазичастиц в сверхпроводниковых пленках нитрида титана и легированных бором пленках алмаза** Г. Гольцман, Сергей Рябчун, Анна Кардакова, Павел Ан, 2018-09-22 TiN C B

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Table of Contents Distributed Antenna Coupled Tes For Fir Detector Arrays

1. Understanding the eBook Distributed Antenna Coupled Tes For Fir Detector Arrays
 - The Rise of Digital Reading Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Advantages of eBooks Over Traditional Books
2. Identifying Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Distributed Antenna Coupled Tes For Fir Detector Arrays
 - User-Friendly Interface
4. Exploring eBook Recommendations from Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Personalized Recommendations
 - Distributed Antenna Coupled Tes For Fir Detector Arrays User Reviews and Ratings
 - Distributed Antenna Coupled Tes For Fir Detector Arrays and Bestseller Lists
5. Accessing Distributed Antenna Coupled Tes For Fir Detector Arrays Free and Paid eBooks
 - Distributed Antenna Coupled Tes For Fir Detector Arrays Public Domain eBooks
 - Distributed Antenna Coupled Tes For Fir Detector Arrays eBook Subscription Services
 - Distributed Antenna Coupled Tes For Fir Detector Arrays Budget-Friendly Options

6. Navigating Distributed Antenna Coupled Tes For Fir Detector Arrays eBook Formats
 - ePub, PDF, MOBI, and More
 - Distributed Antenna Coupled Tes For Fir Detector Arrays Compatibility with Devices
 - Distributed Antenna Coupled Tes For Fir Detector Arrays Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Highlighting and Note-Taking Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Interactive Elements Distributed Antenna Coupled Tes For Fir Detector Arrays
8. Staying Engaged with Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Distributed Antenna Coupled Tes For Fir Detector Arrays
9. Balancing eBooks and Physical Books Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Distributed Antenna Coupled Tes For Fir Detector Arrays
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Setting Reading Goals Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Fact-Checking eBook Content of Distributed Antenna Coupled Tes For Fir Detector Arrays
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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