

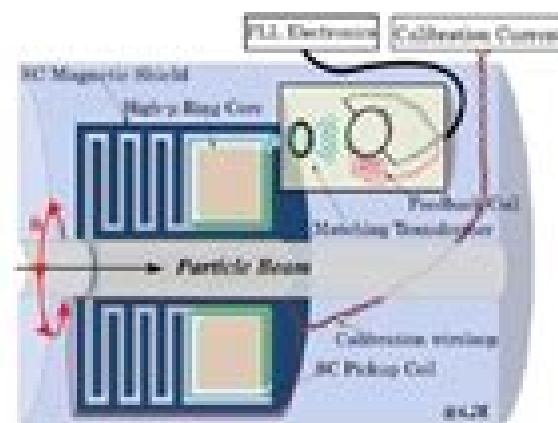
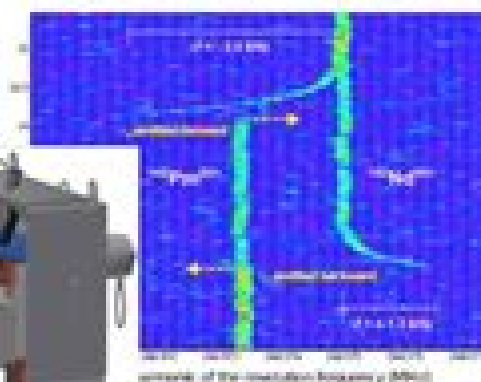
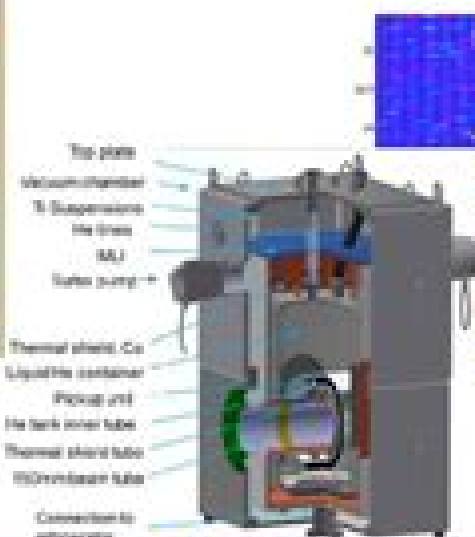
Cryogenic Detectors

Micro Calorimeters

- cryogenic detectors and low temperature readout ASICs
- highly granular cryogenic detector arrays and their readout

Beam Diagnostics: Non-Destructive In-Ring Particle Detection

- Single particle sensitivity (Schottky)
- absolut current values (**C**ryogenic **C**urrent **C**omparators) using dc-SQUIDs (device, cryostat, magn. shielding, electronics)



Cryogenic Particle Detection

**Max-Planck-Institut für Physik, Franz
Pröbst**

A red circular graphic with a gradient, appearing as a semi-circle or a partial ring, located to the right of the text box.

Cryogenic Particle Detection:

Cryogenic Particle Detection Hans-Christian Stahl, 2005-06-22 The development of cryogenic devices for particle detection has reached a stage at which many interesting applications are conceivable and already have been demonstrated The book provides a comprehensive review of the field of cryogenic particle detection It introduces the different detection techniques and gives an overview of the important areas in which these detectors are successfully applied

Transition-edge Sensor with Enhanced Electrothermal Feedback for Cryogenic Particle Detection, 2001 A superconducting transition edge sensor with an electrothermal feedback circuit a heat sink thermally coupled thereto a bias feedback circuit electrically coupled with the electrothermal feedback circuit and a current sensor electrically coupled with the bias feedback circuit and inductively coupled with the electrothermal feedback circuit *Particle Detectors* Claus

Gruppen, Boris Shwartz, 2023-07-27 This book is a reference on particle detectors for graduate students and researchers in particle physics **Model for Cryogenic Particle Detectors with Superconducting Phase Transition Thermometers** Max-Planck-Institut für Physik, Franz Pröbst, 1994 **A Massive Cryogenic Particle Detector with Good Energy Resolution** Max-Planck-Institut für Physik, Peter Ferger, 1993 **A massive cryogenic particle detector with good energy resolution**, 1993 Model for cryogenic particle detectors with superconducting phase transition thermometers

, 1994 **Convergence of Terahertz Sciences in Biomedical Systems** Gun-Sik Park, Yong Hyup Kim, Haewook Han, Joon Koo Han, Jaewook Ahn, Joo-Hiuk Son, Woong-Yang Park, Young Uk Jeong, 2012-10-19 Recent technological breakthrough in the field of Terahertz radiation has triggered new applications in biology and biomedicine Particularly biological applications are based on the specific spectroscopic fingerprints of biological matter in this spectral region Historically with the discovery of new electromagnetic wave spectrum we have always discovered new medical diagnostic imaging systems The use of terahertz wave was not realized due to the absence of useful terahertz sources Now after successful generation of THz waves it is reported that a great potential for THz wave exists for its resonance with bio molecules There are many challenging issues such as development of THz passive and active instrumentations understanding of THz Bio interaction for THz spectroscopy THz Bio nonlinear phenomena and safety guideline and THz imaging systems Eventually the deeper understanding of THz Bio interaction and novel THz systems enable us to develop powerful THz biomedical imaging systems which can contribute to biomedical industry This is a truly interdisciplinary field and convergence technology where the communication between different disciplines is the most challenging issue for the success of the great works One of the first steps to promote the communications in this convergence technology would be teaching the basics of these different fields to the researchers in a plain language with the help of *Convergence of Terahertz Science in Biomedical Systems* which is considered to be 3 4th year college students or beginning level of graduate students Therefore this type of book can be used by many people who want to enter or understand this field Even more it can be used for teaching in universities or research

institutions **Applied Superconductivity** Paul Seidel, 2015-01-22 This wide ranging presentation of applied superconductivity from fundamentals and materials right up to the details of many applications is an essential reference for physicists and engineers in academic research as well as in industry Readers looking for a comprehensive overview on basic effects related to superconductivity and superconducting materials will expand their knowledge and understanding of both low and high T_c superconductors with respect to their application Technology preparation and characterization are covered for bulk single crystals thin films as well as electronic devices wires and tapes The main benefit of this work lies in its broad coverage of significant applications in magnets power engineering electronics sensors and quantum metrology The reader will find information on superconducting magnets for diverse applications like particle physics fusion research medicine and biomagnetism as well as materials processing SQUIDS and their usage in medicine or geophysics are thoroughly covered as are superconducting radiation and particle detectors aspects on superconductor digital electronics leading readers to quantum computing and new devices **Handbook of Terahertz Technology** Neil Sellers, 2018-01-21 Terahertz radiation also known as submillimeter radiation terahertz waves tremendously high frequency THF T rays T waves T light T lux or THz consists of electromagnetic waves within the ITU designated band of frequencies from 0.3 to 3 terahertz Wavelengths of radiation in the terahertz band correspondingly range from 1 mm to 0.1 mm Because terahertz radiation begins at a wavelength of one millimeter and proceeds into shorter wavelengths it is sometimes known as the submillimeter band and its radiation as submillimeter waves especially in astronomy The book presents information about Terahertz science Terahertz photodetectors and Terahertz Lasers A special emphasis is given to room temperature operation of long wavelength photodetectors based on novel quantum dots Moreover a complete analysis of systems based on Quantum Cascade structures to detect far infrared wavelengths is provided Finally the book presents Terahertz laser principles considering multi color lasers in this range of wavelengths It is written as a background for graduate students in the Optics field

Superconducting and Low-temperature Particle Detectors European Materials Research Society. Meeting, 1989 As demonstrated by the contributions in this volume the domain of superconducting and low temperature devices is in a rapidly expanding phase Interactions between materials sciences low temperature physics astrophysics nuclear and particle physics have provided the incentive for new experiments which could ultimately record such rare interactions as double beta decay neutrino scattering or collisions of the elusive dark matter halo particles The theoretical and experimental improvements achieved during the last year have been impressive Detection of 60 keV resolution with a non zero spin material as a target seems therefore realizable in the near future Similarly impressive achievements on ballistic phonons detection and superheated superconducting detectors have been presented together with reliable techniques for developing ultra low noise electronics required by these ambitious experiments Apart from the contributions presented during the symposium the two original papers by Niinikoski proposing the use of bolometers as particle detectors have been included in this volume These

papers despite their current interest have never been published before **Fluctuation Mechanisms in Superconductors** Holger Bartolf, 2015-12-16 Holger Bartolf discusses state of the art detection concepts based on superconducting nanotechnology as well as sophisticated analytical formul that model dissipative fluctuation phenomena in superconducting nanowire single photon detectors Such knowledge is desirable for the development of advanced devices which are designed to possess an intrinsic robustness against vortex fluctuations and it provides the perspective for honorable fundamental science in condensed matter physics Especially the nanowire detector allows for ultra low noise detection of signals with single photon sensitivity and GHz repetition rates Such devices have a huge potential for future technological impact and might enable unique applications e g high rate interplanetary deep space data links from Mars to Earth Superconducting and Low-Temperature Particle Detectors G. Waysand, G. Chardin, 2012-12-02 As demonstrated by the contributions in this volume the domain of superconducting and low temperature devices is in a rapidly expanding phase Interactions between materials sciences low temperature physics astrophysics nuclear and particle physics have provided the incentive for new experiments which could ultimately record such rare interactions as double beta decay neutrino scattering or collisions of the elusive dark matter halo particles The theoretical and experimental improvements achieved during the last year have been impressive Detection of 60 keV resolution with a non zero spin material as a target seems therefore realizable in the near future Similarly impressive achievements on ballistic phonons detection and superheated superconducting detectors have been presented together with reliable techniques for developing ultra low noise electronics required by these ambitious experiments Apart from the contributions presented during the symposium the two original papers by Niinikoski proposing the use of bolometers as particle detectors have been included in this volume These papers despite their current interest have never been published before The comprehensive style of the papers will appeal to specialists and non specialists alike in particular solid state physicists will find the volume of considerable interest as the field of materials research continues to benefit from the type of work presented here **Understanding Phonon Sensing for a WIMP Search Detector** Alan Keith Cummings, 1997 Millimeter and Submillimeter Detectors for Astronomy ,2002 **Cryogenic Wind Tunnels** Marie H. Tuttle, 1987 **The Cryogenic Dark Matter Search** ,2010 The Cryogenic Dark Matter Search CDMS is searching for Weakly Interacting Massive Particles WIMPs with cryogenic particle detectors These detectors have the ability to discriminate between nuclear recoil candidate and electron recoil background events by collecting both phonon and ionization energy from recoils in the detector crystals The CDMS II experiment has completed analysis of the first data runs with 30 semiconductor detectors at the Soudan Underground Laboratory resulting in a world leading WIMP nucleon spin independent cross section limit for WIMP masses above 44 GeV c² As CDMS aims to achieve greater WIMP sensitivity it is necessary to increase the detector mass and discrimination between signal and background events Incomplete ionization collection results in the largest background in the CDMS detectors as this causes electron recoil background interactions to

appear as false candidate events Two primary causes of incomplete ionization collection are surface and bulk trapping Recent work has been focused on reducing surface trapping through the modification of fabrication methods for future detectors Analyzing data taken with test devices has shown that hydrogen passivation of the amorphous silicon blocking layer worsens surface trapping Additional data has shown that the iron ion implantation used to lower the critical temperature of the tungsten transition edge sensors causes a degradation of the ionization collection Using selective implantation on future detectors may improve ionization collection for events near the phonon side detector surface Bulk trapping is minimized by neutralizing ionized lattice impurities Detector investigations at testing facilities and in situ at the experimental site have provided methods to optimize the neutralization process and monitor running conditions to maintain full ionization collection This work details my contribution to the 5 tower data taking monitoring and analysis effort as well as the SuperCDMS detector development with the focus on monitoring and improving ionization collection in the detectors Nuclear Physics
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