

Advances in the Physics of Condensed Matter

SUPERCONDUCTIVE PARTICLE DETECTORS

26 – 29 October 1987

Edited by

ANTONIO BARONE



World Scientific

Superconductive Particle Detectors

Peter J. Lee



Superconductive Particle Detectors:

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 Superconductive Particle Detectors

Antonio Barone, 1988 This workshop is a series of meetings organized by the Institute for Scientific Interchange in Torino Italy It focuses on the potential of Superconductivity in the field of radiation detection and is particularly timely and important The proceedings of the workshop highlights research on Superconducting Detectors for Nuclear Physics Particle Physics and Astrophysics Superconducting Tunneling Junctions Superheated Superconducting Granules among other topics

Superconductive Particle Detectors - Advances In The Physics Of Condensed Matter Antonio Barone, 1988-04-01 This workshop is a series of meetings organized by the Institute for Scientific Interchange in Torino Italy It focuses on the potential of Superconductivity in the field of radiation detection and is particularly timely and important The proceedings of the workshop highlights research on Superconducting Detectors for Nuclear Physics Particle Physics and Astrophysics Superconducting Tunneling Junctions Superheated Superconducting Granules among other topics **Superconductivity**

and Particle Detection G. Waysand, 1995 Superconductors today constitute a major focus of activity in the development of high resolution detectors for many applications This volume collects the papers of an international workshop on the basic theoretical and experimental issues involved in the interaction between particles and superconductors It emphasizes the involved condensed matter aspects of non equilibrium time dependent Ginzburg Landau equations metastable superconductivity quasiparticle and phonon lifetimes and quasiparticle trapping as well as low noise pulse electronics detector fabrication and low background cryogenics Publisher's website **Superconductivity And Particle Detection -**

Proceedings Of The International Workshop G Waysand, A Morales, T A Girard, 1995-03-07 Superconductors today

constitute a major focus of activity in the development of high resolution detectors for many applications This volume collects the papers of an international workshop on the basic theoretical and experimental issues involved in the interaction between particles and superconductors It emphasizes the involved condensed matter aspects of non equilibrium time dependent Ginzburg Landau equations metastable superconductivity quasiparticle and phonon lifetimes and quasiparticle trapping as well as low noise pulse electronics detector fabrication and low background cryogenics *Superconductor Detectors* Masataka Ohkubo, 2025-10-01 This book highlights how superconductor detectors that replace conventional detectors such as semiconductor detectors and secondary electron multipliers can overcome the fundamental limitations of certain analytical instruments As an educational guide to students entering this field this book begins with the history of superconductor detectors and the fundamentals on detector operation categorizing two detection schemes of thermal detection and quantum detection For experts the book offers a review on the oldest and latest endeavors Comparison between the detector physics of superconductor detectors and that of semiconductor detectors reveals unsolved issues such as quasiparticle excitation Fano factor average energy consumed for generating carriers phonon loss and spatial inhomogeneity Instrument developers will be stimulated by the comparison of performance figures of different superconductor detector types The novel measurement data included will contribute to a wide range of fields such as dentistry molecular biology energy saving society planetary science and prebiotic organic molecules in space This book is correspondingly suitable for a broad audience in the detector research community seeking to deepen their understanding of detector physics and its applications **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 *Superconductive particle detectors* Antonio Barone, 1988 **X-ray Detection By Superconducting Tunnel Junctions - Proceedings Of The International Workshop** R Cristiano, Sergio Pagano, Antonio Barone, 1991-10-16 This volume gives the state of the art on superconducting tunnel junctions as X ray detectors for low energy radioastronomy Contributions from major experts of the main laboratories

in the world are included They cover many aspects of the subject from nonequilibrium phenomena in STJ to the detector design optimization and report the most recent experimental results in the field Concise Encyclopedia of Magnetic and Superconducting Materials K.H.J. Buschow,2005-12-28 Magnetic and superconducting materials pervade every avenue of the technological world from microelectronics and mass data storage to medicine and heavy engineering Both areas have experienced a recent revitalisation of interest due to the discovery of new materials and the re evaluation of a wide range of basic mechanisms and phenomena This Concise Encyclopedia draws its material from the award winning Encyclopedia of Materials and Engineering and includes updates and revisions not available in the original set making it the ideal reference companion for materials scientists and engineers with an interest in magnetic and superconducting materials Contains in excess of 130 articles taken from the award winning Encyclopedia of Materials Science and Technology including ScienceDirect updates not available in the original set Each article discusses one aspect of magnetic and superconducting materials and includes photographs line drawings and tables to aid the understanding of the topic at hand Cross referencing guides readers to articles covering subjects of related interest *Engineering Superconductivity* Peter J. Lee,2001-05-02 Comprehensive coverage of superconductivity from the Wiley Encyclopedia of Electrical and Electronics Engineering Engineering Superconductivity features fifty articles selected from the Wiley Encyclopedia of Electrical and Electronics Engineering the one truly indispensable reference for electrical engineers Superconductor technology has made highly advanced experiments possible in chemistry biochemistry particle physics and health sciences and introduced new applications currently in use in fields from medicine to cellular communications Taken together these articles written by acknowledged experts in the field provide the most complete and in depth accounting of superconductivity in existence The book brings together a wealth of information that would not be available to those who do not have access to the full 24 volume encyclopedia This thorough survey looks at the application of superconductors from an engineer s practical perspective rather than a theoretical approach Engineering Superconductivity provides full coverage of the fundamentals of superconducting behavior and explains the properties and fabrication methods of commercially produced superconductors Up to date material on superconductor applications as well as competing technologies is included The fifty articles presented here are divided into three sections Superconductivity and magnetism Superconductors Applications and related technology Engineering Superconductivity is a complete and up to date reference for engineers physicists chemists materials scientists and anyone working with superconductors **Nuclear Electronics** Vladimir Polushkin,2004-11-19 With the commercialisation of superconducting particles and radiation detectors set to occur in the very near future nuclear analytical instrumentation is taking a big step forward These new detectors have a high degree of accuracy stability and speed and are suitable for high density multiplex integration in nuclear research laboratories and astrophysics Furthermore superconducting detectors can also be successfully applied to food safety airport security systems medical examinations

doping tests forensic investigations This book is the first to address a new generation of analytical tools based on new superconductor detectors demonstrating outstanding performance unsurpassed by any other conventional devices Presenting the latest research and development in nanometer technologies and biochemistry this book Discusses the development of nuclear sensing techniques Provides guidance on the design and use of the next generation of detectors Describes cryogenic detectors for nuclear measurements and spectrometry Covers primary detectors front end readout electronics and digital signal processing Presents applications in nanotechnology and modern biochemistry including DNA sequencing proteinomics microorganisms Features examples of two applications in X ray electron probe nanoanalysis and time of flight mass spectrometry This comprehensive treatment is the ideal reference for researchers industrial engineers and graduate students involved in the development of high precision nuclear measurements nuclear analytical instrumentation and advanced superconductor primary sensors This book will also appeal to physicists electrical and electronic engineers in the nuclear industry *Superconductivity* R.D. Parks, 2018-03-29 First published in 1969 CRC Press is an imprint of Taylor Francis

Handbook of Superconducting Materials David A. Cardwell, David S. Ginley, 2003 **Nuclear Electronics with Quantum Cryogenic Detectors** Vladimir Polushkin, 2022-08-02 NUCLEAR ELECTRONICS WITH QUANTUM CRYOGENIC DETECTORS An ideal comprehensive reference on quantum cryogenic detector instrumentation for the semiconductor and nuclear electronics industries Quantum nuclear electronics is an important scientific and technological field that overviews the development of the most advanced analytical instrumentation This instrumentation covers a broad range of applications such as astrophysics fundamental nuclear research facilities chemical nano spectroscopy laboratories remote sensing security systems forensic investigations and more In the years since the first edition of this popular resource the discipline has developed from demonstrating the unprecedented energy resolving power of individual devices to building large frame cameras with hundreds of thousands of pixel arrays capable of measuring and processing massive information flow Building upon its first edition the second edition of Nuclear Electronics with Quantum Cryogenic Detectors reflects the latest advances by focusing on novel microwave kinetic inductance detection devices MKIDs the microwave superconducting quantum interferometers MSQUIDS extending by orders of magnitude the scalability of cryogenic detectors implementing newly developed multiplexing techniques and decoding algorithms More it reflects on the interaction of quantum cryogenic detectors which in turn can be paired with semiconductor large frame cameras to provide a broad picture of a sky or chemical sample and quantum devices making this second edition of Nuclear Electronics a one stop reference for the combined technologies The book also provides an overview of latest developments in front end electronics signal processing channels and cryogenics all components of quantum spectroscopic systems and provides guidance on the design and applications of the future quantum cryogenic ultra high resolution spectrometers Nuclear Electronics with Quantum Cryogenic Detectors readers will also find Fully revised material from the first edition relating to cryogenic requirements

Brand new chapters on semiconductor radiation sensors cooling and magnetic shielding for cryogenic detector systems front end readout electronic circuits for quantum cryogenic detectors energy resolution of quantum cryogenic spectrometers and applications of spectrometers based on cryogenic detectors A number of brand new chapters dedicated to applications using MSQUID multiplexing technique an area that will dominate the cryogenic detector field in the next decades Nuclear Electronics with Quantum Cryogenic Detectors provides a comprehensive overview of the entire discipline for researchers industrial engineers and graduate students involved in the development of high precision nuclear measurements nuclear analytical instrumentation and advanced superconductor primary sensors It is also a helpful resource for electrical and electronic engineers and physicists in the nuclear industry as well as specialist researchers or professionals working in cryogenics applications like biomagnetism quantum computing gravitation measurement and more

Low Temperature Detectors for Neutrinos and Dark Matter III L. Brogiato, D. V. Camin, Ettore Fiorini, 1990

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 formula 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

New Technologies for Supercolliders L. Cifarelli, Thomas Ypsilantis, 2012-12-06 The present volume is based on the proceedings of the 12th Workshop of the INFN ELOISATRON Project held at the Ettore Majorana Centre for Scientific Culture EMCSC Erice fra pani Sicily Italy in the period September 15 20 1990 The proceedings deal with the presentation of New Technologies for Supercolliders Three new energy frontiers 16 40 and 200 TeV are now opened up for the future of Subnuclear Physics Basic problems above the Fermi energy are crowding up but no one knows the energy levels needed for their solution This is why the technology for experiments with the new generation of Supercolliders needs to be pursued having in mind the problems which are of common interest in the three energy frontiers The primary purpose of the Workshop was to contribute towards the highest energy limit in the search for new instruments and new technologies Furthermore the present status and performances of various detector technologies were reviewed The possible options for a powerful apparatus whose goal would be the discovery of the top Higgs and SUSY particles in a very high energy high rate environment were finally analysed The Workshop was sponsored by the Italian National Institute for Nuclear Physics INFN the Italian Ministry of Education the Italian Ministry of Scientific and Technological Research and the Sicilian Regional Government We are thankful to the staff of EMCSC for their efficient and warm support

Principles and Applications of

Superconducting Quantum Interference Devices Antonio Barone,1992 Principles and applications of SQUIDs serves as a textbook and a multi author collection of critical reviews Providing both basic aspects and recent progress in SQUIDs technology it offers a realistic and stimulating picture of the state of the art It can also contribute to a further development of the field for commercial applications

The Wonder of Superconductivity: Unlocking the Power of Magnetic Energy

Pasquale De Marco,2025-08-15 Immerse yourself in the captivating world of superconductivity a realm where electricity flows without resistance and magnetic fields are expelled revealing a treasure trove of transformative technologies In this comprehensive guide we unveil the secrets of this remarkable phenomenon taking you on an enthralling journey from its fundamental principles to its groundbreaking applications Discover the fascinating history of superconductivity from its humble beginnings to its current status as a cornerstone of modern technology Delve into the underlying physics that govern this extraordinary state of matter gaining a deeper understanding of the intricate dance of electrons and the quantum world Explore the diverse applications of superconductivity spanning industries and disciplines Witness the immense power of superconducting magnets in medical imaging particle accelerators and magnetic levitation trains Learn how superconductivity enables efficient energy storage and transmission promising a more sustainable future Unravel the mysteries of high temperature superconductors a class of materials that has revolutionized the field Discover the unique properties that make them so promising for next generation technologies unlocking a world of possibilities in electronics energy and transportation Peer into the future of superconductivity and envision its boundless potential From quantum computing to space exploration this transformative technology holds the key to solving some of humanity's greatest challenges Whether you're a student eager to expand your knowledge a professional seeking to deepen your understanding or simply a curious mind captivated by the wonders of science this book is your gateway to the extraordinary world of superconductivity Embark on this electrifying journey and unlock the secrets of this remarkable phenomenon If you like this book write a review

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