



Research On Particle Detectors

Claus Grupen, Irène Buvat



Research On Particle Detectors:

Research on Particle Imaging Detectors Georges Charpak,1995 Much instrumentation has been developed for imaging the trajectories of elementary particles produced in high energy collisions Since 1968 gaseous detectors beginning with multiwire chambers and drift chambers have been used for the visualisation of particle trajectories and the imaging of X rays neutrons hard gamma rays beta rays and ultraviolet photons This book commemorates the groundbreaking research leading to the evolution of such detectors carried out at CERN by Georges Charpak Nobel Prizewinner for Physics in 1992 Besides collecting his key papers the book also includes original linking commentary which sets his work in the context of other worldwide research

The Physics of Particle Detectors Dan Green,2000-08-15 This text provides a comprehensive introduction to the physical principles and design of particle detectors covering all major detector types in use today Emphasis is placed on explaining the physical principles behind particle detection showing how those principles are best utilised in real detectors The book will be of interest and value to undergraduates graduates and researchers in both particle and nuclear physics Exercises and detailed further reading lists are included

Research on Particle Imaging Detectors Georges Charpak,1995 Much instrumentation has been developed for imaging the trajectories of elementary particles produced in high energy collisions Since 1968 gaseous detectors beginning with multiwire chambers and drift chambers have been used for the visualisation of particle trajectories and the imaging of X rays neutrons hard gamma rays beta rays and ultraviolet photons This book commemorates the groundbreaking research leading to the evolution of such detectors carried out at CERN by Georges Charpak Nobel Prizewinner for Physics in 1992 Besides collecting his key papers the book also includes original linking commentary which sets his work in the context of other worldwide research

Particle Detectors Claus Grupen,Boris Shwartz,2023-07-27 This book is a reference on particle detectors for graduate students and researchers in particle physics

Handbook of Particle Detection and Imaging Claus Grupen,Irène Buvat,2011-10-29 The handbook centers on detection techniques in the field of particle physics medical imaging and related subjects It is structured into three parts The first one is dealing with basic ideas of particle detectors followed by applications of these devices in high energy physics and other fields In the last part the large field of medical imaging using similar detection techniques is described The different chapters of the book are written by world experts in their field Clear instructions on the detection techniques and principles in terms of relevant operation parameters for scientists and graduate students are given Detailed tables and diagrams will make this a very useful handbook for the application of these techniques in many different fields like physics medicine biology and other areas of natural science

Handbook of Particle Detection and Imaging Claus Grupen,Irène Buvat,2012-01-08 The handbook centers on detection techniques in the field of particle physics medical imaging and related subjects It is structured into three parts The first one is dealing with basic ideas of particle detectors followed by applications of these devices in high energy physics and other fields In the last part the large field of medical

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Particle Detectors Hermann Kolanoski,Norbert Wermes,2020 Introduction Overview history and concepts Interactions of particles with matter Movement of charge carriers in electric and magnetic fields Signal formation by moving charges Non electronic detectors Gas filled detectors Semiconductor detectors Track reconstruction and momentum measurement Photodetectors Cherenkov detectors Transition radiation detectors Scintillation detectors Particle identification Calorimeters Detectors for cosmic particles neutrinos and exotic matter Signal processing readout and noise Trigger and data acquisition systems Appendix A Dosimetry and radioactive sources Appendix B Weighting potential of segmented electrodes Appendix C Diffusion effects in drift chambers Appendix D Ionisation statistics in drift chambers Appendix E Position resolution of structured electrodes Appendix F Fitting of track models Appendix G LPM effect Appendix H Laplace transform Appendix I Physical noise sources Bibliography Abbreviations Index

Physics for Particle Detectors and Particle Detectors for Physics Philipp Windischhofer,2023-08-31 Experimental particle physics is a science of many scales A large number of physical processes spanning energies from meV to TeV must be understood for modern collider experiments to be designed built and conducted successfully This thesis contributes to the understanding of phenomena across this entire dynamic range The first half of this document studies aspects of low energy physics that govern the operation of particle detectors limit their performance and guide the development of novel instrumentation To formalise these aspects classical electrodynamics is used to derive a general description of the formation of electrical signals in detectors and ideas from quantum mechanics are applied to the study of charge avalanche amplification in semiconductors These results lead to a comprehensive analytical characterisation of the time resolution and the efficiency of single photon avalanche diodes and isolate the most important design variables They also reveal the applicability of these devices in precision timing detectors for charged particles which is experimentally verified in a high energy hadron beam Large detector systems at hadron colliders probe fundamental physics at the energy frontier In the second half data collected with the ATLAS detector during Run 2 of the Large Hadron Collider are used to measure the cross section for the production of a Higgs boson together with an electroweak boson as a function of the kinematic scale of the process This measurement provides the finest granularity available to date for this process It is highly informative of the structure of interactions beyond the direct kinematic reach of the experiment and new limits are set on the couplings of such interactions within an effective field theory

Detectors in Particle Physics Georg Viehauer,Tony Weidberg,2024 This textbook provides an accessible yet comprehensive introduction to particle detectors It emphasises the core physics principles enabling a deeper understanding of the subject for further and more advanced studies

Case studies of the various applications of particle detectors are provided particularly across medical physics The primary audience is graduate students in particle or nuclear physics in addition to advanced undergraduate students in physics Particle detectors have a very broad range of applications so this will also be a useful guide for more experienced particle physics researchers in software and analysis who wish to gain a good understanding of detector physics Particle detectors are widely used outside of particle physics such as astrophysicists using particle detectors on satellite missions making this a valuable reference for interdisciplinary readers

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

Novel ideas for accelerators, particle detection and data challenges at future colliders Alessandro Tricoli,Patrizia Azzi,Petra Merkel,Vladimir Shiltsev,2023-07-21

Energy Research Abstracts ,1992 **Air Force Research Resumés** , **Scientific and Technical Aerospace Reports** ,1994 *LBL Research Review* ,1985 *Detectors in Particle Physics* GEORG. WEIDBERG VIEHHAUSER (TONY.),Tony

Weidberg,2024-02-06 This textbook provides an accessible yet comprehensive introduction to detectors in particle physics It emphasises the core physics principles enabling a deeper understanding of the subject for further and more advanced studies In addition to the discussion of the underlying detector physics another aspiration of this book is to introduce the reader to practically important aspects of particle detectors like electronics alignment calibration and simulation of particle detectors Case studies of the various applications of detectors in particle physics are provided The primary audience is graduate students in particle or nuclear physics in addition to advanced undergraduate students in physics Key Features Provides an accessible yet thorough discussion of the basic physics principles needed to understand how particle detectors work Presents applications of the basic physics concepts to examples of modern detectors Discusses practically important aspects like electronics alignment calibration and simulation of particle detectors Contains exercises for each chapter to further

understanding Georg Viehhauser is a Lecturer in the Physics department at the University of Oxford UK and a supernumerary fellow at St John s College Oxford UK He has been working on a variety of different particle detector technologies starting with the Forward Chamber A at the DELPHI experiment the LKr calorimeter for NA48 the muon chambers for ATLAS and the RICH for CLEO III More recently he has contributed to the construction of the ATLAS SCT and he is currently involved in the phase 2 upgrade of the ATLAS ITk as well as the SVT for the ePIC experiment He is one of the main organisers of the Forum on Tracking Detector Mechanics Tony Weidberg is a Professor of Physics at Oxford University UK and a tutorial fellow at St John s College He worked on CCD readout for a scintillating fibre detector at the CERN SPS collider He played a major role in the founding of the ATLAS experiment and the design of the ATLAS SCT He has a wide range of experience from detector R D assembly and integration of complex detector systems as well as evaluating their performance He has extensive experience in radiation hardness studies particularly for optoelectronics and applications of reliability theory Both authors have a long experience in teaching undergraduate and graduate students at the University of Oxford

ERDA Energy Research Abstracts United States. Energy Research and Development Administration,1976

Nuclear Science Abstracts ,1976 **Space Studies Board Annual Report 2010** National Research Council,Division on Engineering and Physical Sciences,Space Studies Board,2011-01-01 The Space Studies Board SSB was established in 1958 to serve as the focus of the interests and responsibilities in space research for the National Academies The SSB provides an independent authoritative forum for information and advice on all aspects of space science and applications and it serves as the focal point within the National Academies for activities on space research It oversees advisory studies and program assessments facilitates international research coordination and promotes communications on space science and science policy between the research community the federal government and the interested public The SSB also serves as the U S National Committee for the International Council for Science Committee on Space Research COSPAR This volume reviews the organization activities and reports of the SSB for the year 2010

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