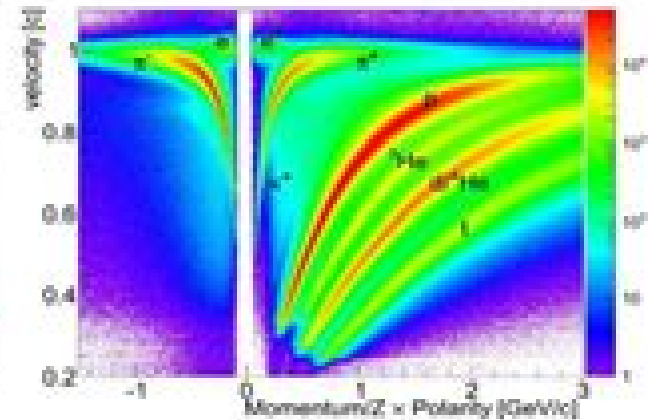
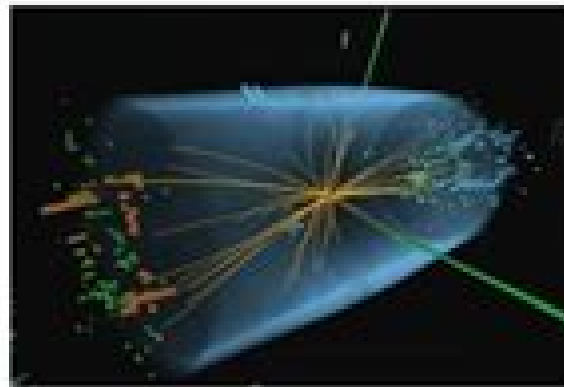


Particle Detectors @LIP

Particle/Radiation detectors are devices sensitive to the **passage of particles** and able to measure some of their characteristics, e.g.

- Energy
- Interaction position
- Interaction time
- Momentum
- Velocity



LIP has a high level of expertise in radiation detection technologies, particularly **in liquid xenon and gaseous detectors**, including:

- Research on the fundamental processes
- R&D of detectors, associated electronics, control and DAQ systems
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Detectors For Particle Radiation

Claude Leroy, Pier-giorgio Rancoita



Detectors For Particle Radiation:

Detectors for Particle Radiation Konrad Kleinknecht, 1998-12-10 A clear concise comprehensive review of detectors of high energy particles and radiation thoroughly revised and updated **Particle Physics Reference Library** Christian W. Fabjan, Herwig Schopper, 2020-09-01 This second open access volume of the handbook series deals with detectors large experimental facilities and data handling both for accelerator and non accelerator based experiments It also covers applications in medicine and life sciences A joint CERN Springer initiative the Particle Physics Reference Library provides revised and updated contributions based on previously published material in the well known Landolt Boernstein series on particle physics accelerators and detectors volumes 21A B1 B2 C which took stock of the field approximately one decade ago Central to this new initiative is publication under full open access **Detectors for Particle Radiation** Konrad Kleinknecht, 1988-02 This book based on a course given by the author at the University of Dortmund for many years describes the physical principles used in devices for the detection of charged particles and gamma radiation and the construction and performance of particle detectors Detectors for particles and radiation are used in many fields of science including particularly particle physics and nuclear physics experiments nuclear medicine cosmic ray measurements space sciences and geological exploration After an introduction to the physical principles of detection the book describes in detail the many different types of detector and includes a discussion of the standard techniques as well as a description of recent developments The text is well illustrated with examples from the many fields in which these devices are employed and the level is sufficiently introductory that the book may be understood by readers from a variety of backgrounds **Detectors for Particle Radiation: Volume 3 (Particle Physics Essentials)** Abdiel Baxter, 2023-09-26 Radiation is described as the particles or energies emitted through radioactive matter The most common types of radiations are gamma rays alpha particles X rays and beta particles Radiation detectors refer to those devices that detect and transmit information about incoming radiation They are useful in biology medicine physics and geology Generally radiation detectors are not capable of capturing radiated particles and they do not even observe the radiation itself The detectors search for the trails which radiation has left behind The objective behind the design of detectors is the creation of an environment where radiation signature can be easily written This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of detectors for particle radiation It will serve as a valuable source of reference for graduate and postgraduate students **Detectors for Particle Radiation: Volume 1 (Particle Physics Essentials)** Abdiel Baxter, 2023-09-26 Radiation is described as the particles or energies emitted through radioactive matter The most common types of radiations are gamma rays alpha particles X rays and beta particles Radiation detectors refer to those devices that detect and transmit information about incoming radiation They are useful in biology medicine physics and geology Generally radiation detectors are not capable of capturing radiated particles and they do not even observe the radiation itself The detectors search for the

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Baxter,2023-09-26 Radiation is described as the particles or energies emitted through radioactive matter The most common types of radiations are gamma rays alpha particles X rays and beta particles Radiation detectors refer to those devices that detect and transmit information about incoming radiation They are useful in biology medicine physics and geology Generally radiation detectors are not capable of capturing radiated particles and they do not even observe the radiation itself The detectors search for the trails which radiation has left behind The objective behind the design of detectors is the creation of an environment where radiation signature can be easily written This book brings forth some of the most innovative concepts and elucidates the unexplored aspects of detectors for particle radiation It will serve as a valuable source of reference for graduate and postgraduate students Detectors for Particle Radiation: Volume 4 (Particle Physics Essentials) Abdiel

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handbook for the application of these techniques in many different fields like physics medicine biology and other areas of natural science *Detectors in Particle Physics* Georg Viehhauser,Tony Weidberg,2024-03-06 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 For more information and errata please see the authors companion webpage <https://ppdetectors.web.ox.ac.uk> This webpage also allows instructors to request a copy of the solutions manual This eBook was published Open Access with funding support from the Sponsoring Consortium for Open Access Publishing in Particle Physics SCOAP3 **Detectors for Particles and Radiation** H.

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Particle Detectors Hermann Kolanoski,Norbert Wermes,2020-06-30 This book describes the fundamentals of particle detectors as well as their applications Detector development is an important part of nuclear particle and astroparticle physics and through its applications in radiation imaging it paves the way for advancements in the biomedical and materials sciences Knowledge in detector physics is one of the required skills of an experimental physicist in these fields The breadth of knowledge required for detector development comprises many areas of physics and technology starting from interactions of particles with matter gas and solid state physics over charge transport and signal development to elements of microelectronics The book s aim is to describe the fundamentals of detectors and their different variants and implementations as clearly as possible and as deeply as needed for a thorough understanding While this comprehensive opus contains all the materials taught in experimental particle physics lectures or modules addressing detector physics at the Master s level it also goes well beyond these basic requirements This is an essential text for students who want to deepen

their knowledge in this field It is also a highly useful guide for lecturers and scientists looking for a starting point for detector development work

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

Radiation Detection W. H. Tait, 1980

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Principles and Methods H. Schopper, 2011-01-13 Competent experts provide a summary of the enormous progress achieved in the development of new detection methods of charged and neutral particles and photons These achievements were initiated by the advent of new particle colliders e g the LHC at CERN but also by non accelerator experiments Part 1 of Subvolume B reviews the interaction of particle radiation with matter and describes particle detectors like e g scintillation gaseous solid state time of flight Cerenkov transition radiation and neutrino detectors Calorimetry and nuclear emulsions are considered as well Finally signal processing for particle detectors data treatment and analysis methods including detector simulation high level data selection pattern recognition distributed computing and statistical issues are addressed

Grundkurs Strahlenschutz Claus Grupen, Tilo Stroh, Ulrich Werthenbach, 2008-03-15 Das Buch bietet eine sehr praktisch ausgerichtete Einf hrung in die Probleme des Strahlenschutzes seine physikalischen Grundlagen wie die Wechselwirkung ionisierender Strahlung mit Materie die biologische Strahlenwirkung die Quellen der Strahlenbelastung aus unserer Umwelt die Messmethoden im Strahlenschutz Dosimetrie und die praktische Wahrnehmung des Strahlenschutzes Das notwendige Wissen f r den Umgang mit radioaktiven Stoffen wird anhand zahlreicher Beispiele vorgerechneter bungsaufgaben und einfacher Experimente praxisnah vorgestellt Die im

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Silicon Solid State Devices And Radiation Detection Claude Leroy,Pier-giorgio Rancoita,2012-07-24 This book addresses the fundamental principles of interaction between radiation and matter the principles of working and the operation of particle detectors based on silicon solid state devices It covers a broad scope in the fields of application of radiation detectors based on silicon solid state devices from low to high energy physics experiments including in outer space and in the medical environment This book also covers state of the art detection techniques in the use of radiation detectors based on silicon solid state devices and their readout electronics including the latest developments on pixelated silicon radiation detector and their application The content and coverage of the book benefit from the extensive experience of the two authors who have made significant contributions as researchers as well as in teaching physics students in various universities

Principles Of Radiation Interaction In Matter And Detection (3rd Edition) Claude Leroy,Pier-giorgio Rancoita,2011-09-23 This book like the first and second editions addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields from low to high energy including space physics and medical environment It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter detecting systems performance of detectors and their optimization The third edition includes additional material covering for instance mechanisms of energy loss like the inverse Compton scattering corrections due to the Landau Pomeranchuk Migdal effect an extended relativistic treatment of nucleus nucleus screened Coulomb scattering and transport of charged particles inside the heliosphere Furthermore the displacement damage NIEL in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained This book will be of great use to graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle space physics and instrumentation A part of the book is directed toward courses in medical physics The book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation

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