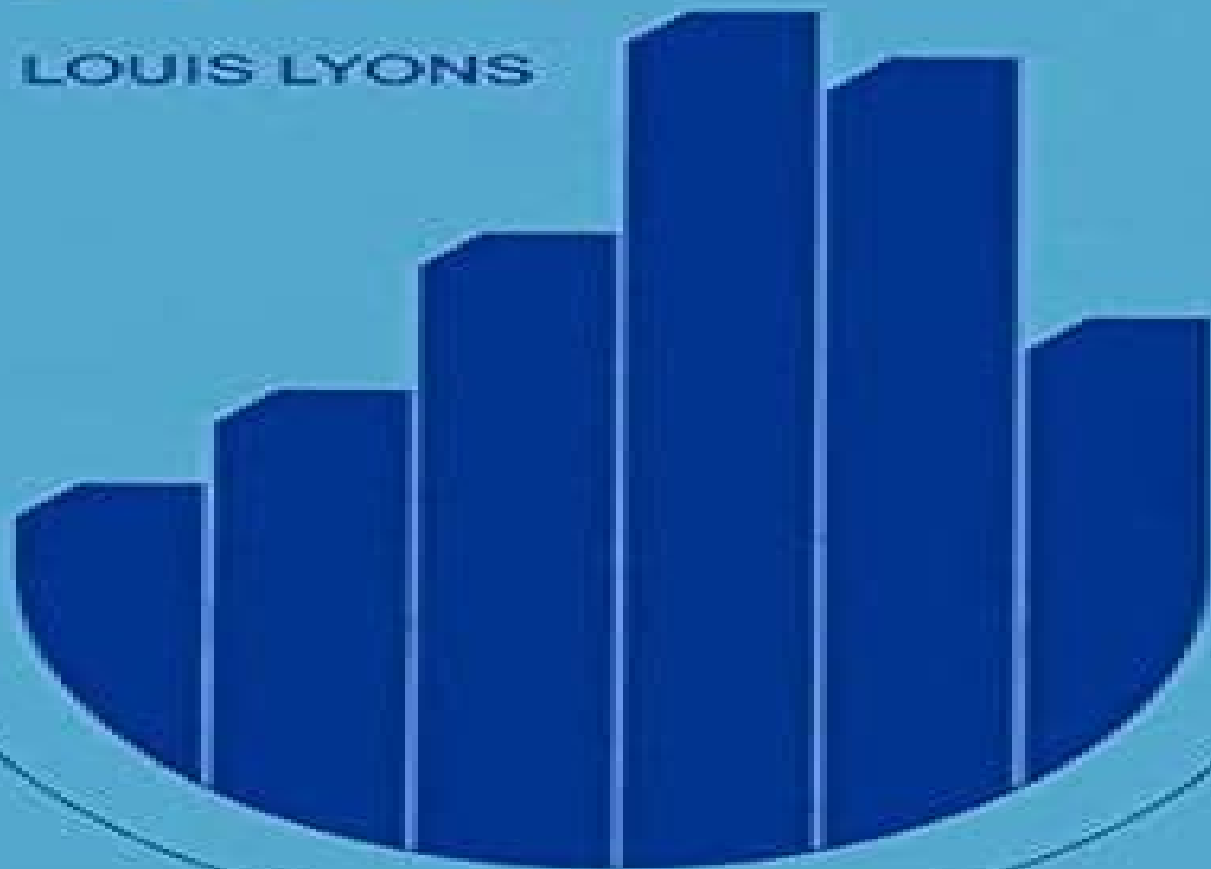


Statistics for nuclear and particle physicists

LOUIS LYONS



Analysis Techniques Nuclear Particle Physicists

Claude Pruneau



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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

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Techniques for Nuclear and Particle Physics Experiments Mr. Rohit Manglik, 2023-07-23

Covers experimental methods detectors instrumentation and analysis techniques used in modern nuclear and particle physics research The Physics of Synchrotron Radiation Albert Hofmann, 2004-05-13 This book explains the underlying physics of synchrotron radiation and derives its main properties It is divided into four parts The first covers the general case of the electromagnetic fields created by an accelerated relativistic charge The second part concentrates on the radiation emitted by a charge moving on a circular trajectory The third looks at undulator radiation covering plane weak undulators strong undulators and other more general undulators The final part deals with applications and investigates the optics of synchrotron radiation dominated by diffraction due to the small opening angle It also includes a description of electron storage rings as radiation sources and the effect of the emitted radiation on the electron beam This book provides a valuable reference for scientists and engineers in the field of accelerators and all users of synchrotron radiation *High- p_T Physics in the Heavy Ion Era* Jan Rak, Michael J. Tannenbaum, 2013-04-25 Aimed at graduate students and researchers in the field of high energy nuclear physics this book provides an overview of the basic concepts of large transverse momentum particle physics with a focus on pQCD phenomena It examines high p_T probes of relativistic heavy ion collisions and will serve as a handbook for those working on RHIC and LHC data analyses Starting with an introduction and review of the field the authors look at basic observables and experimental techniques concentrating on relativistic particle kinematics before moving onto a discussion about the origins of high p_T physics The main features of high p_T physics are placed within a historical context and the authors adopt an experimental outlook highlighting the most important discoveries leading up to the foundation of modern QCD theory Advanced methods are described in detail making this book especially useful for newcomers to the field

Atomic and Nuclear Analytical Methods Hem Raj Verma, 2007-04-26 This book compares and offers a comprehensive overview of nine analytical techniques important in material science and many other branches of science All these methods are already well adapted to applications in diverse fields such as medical environmental studies archaeology and materials science This clearly presented reference describes and compares the principles of the methods and the various source and detector types Handbook of Radioactivity Analysis Michael F. L'Annunziata, 2012-12-02 Handbook of Radioactivity Analysis is written by experts in the measurement of radioactivity The book describes the broad scope of analytical methods available and instructs the reader on how to select the proper technique It is intended as a practical manual for research which requires the accurate measurement of radioactivity at all levels from the low levels encountered in the environment to the high levels measured in radioisotope research This book contains sample preparation procedures recommendations on steps to follow necessary calculations computer controlled analysis and high sample throughput techniques Each chapter includes practical techniques for application to nuclear safety nuclear safeguards environmental analysis weapons disarmament and assays required for research in biomedicine and agriculture The fundamentals of radioactivity properties radionuclide decay and methods of detection are included to provide the basis for a thorough understanding of the analytical

procedures described in the book Therefore the Handbook can also be used as a teaching text Includes sample preparation techniques for matrices such as soil air plant water animal tissue and surface swipes Provides procedures and guidelines for the analysis of commonly encountered na **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

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