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Modern Particle Physics-Mark Thomson 2013-09-05 Unique in its coverage of all aspects of modern particle physics, this textbook provides a clear connection between the theory and recent experimental results, including the discovery of the Higgs boson at CERN. It provides a comprehensive and self-contained description of the Standard Model of particle physics suitable for upper-level undergraduate students and graduate students studying experimental particle physics. Physical theory is introduced in a straightforward manner with full mathematical derivations throughout. Fully-worked examples enable students to link the mathematical theory to results from modern particle physics experiments. End-of-chapter exercises, graded by difficulty, provide students with a deeper understanding of the subject. Online resources available at www.cambridge.org/MPP feature password-protected fully-worked solutions to problems for instructors, numerical solutions and hints to the problems for students and PowerPoint slides and JPEGs of figures from the book.

Quarks and Leptons-Francis Halzen 1984-01-20 This self-contained text describes breakthroughs in our understanding of the structure and interactions of elementary particles. It provides students of theoretical or experimental physics with the background material to grasp the significance of these developments.

Introduction to Elementary Particles-David Griffiths 2008-09-26 This is the first quantitative treatment of elementary particle theory that is accessible to undergraduates. Using a lively, informal writing style, the author strikes a balance between quantitative rigor and intuitive understanding. The first chapter provides a detailed historical introduction to the subject. Subsequent chapters offer a consistent and modern presentation, covering the quark model, Feynman diagrams, quantum electrodynamics, and gauge theories. A clear introduction to the Feynman rules, using a simple model, helps readers learn the calculational techniques without the complications of spin. And an accessible treatment of QED shows how to evaluate tree-level diagrams. Contains an abundance of worked examples and many end-of-chapter problems.

Choice- 1984

Scientific and Technical Books and Serials in Print, 1989-Bowker Editorial Staff 1988-11

Introduction to Nuclear and Particle Physics-A Das 2003-12-23 ' The original edition of Introduction to Nuclear and Particle Physics was used with great success for single-semester courses on nuclear and particle physics offered by American and Canadian universities at the undergraduate level. It was also translated into German, and used overseas. Being less formal but well-written, this book is a good vehicle for learning the more intuitive rather than formal aspects of the subject. It is therefore of value to scientists with a minimal background in quantum mechanics, but is sufficiently substantive to have been recommended for graduate students interested in the fields covered in the text. In the second edition, the material begins with an exceptionally clear development of Rutherford scattering and, in the four following chapters, discusses sundry phenomenological issues concerning nuclear properties and structure, and general applications of radioactivity and of the nuclear force. This is followed by two chapters dealing with interactions of particles in matter, and how these characteristics are used to detect and identify such particles. A chapter on accelerators rounds out the experimental aspects of the field. The final seven chapters deal with elementary-particle phenomena, both before and after the realization of the Standard Model. This is interspersed with discussion of symmetries in classical physics and in the quantum domain, bringing into full focus the issues concerning CP violation, isotopic spin, and other symmetries. The final three chapters are devoted to the Standard Model and to possibly new physics beyond it, emphasizing unification of forces, supersymmetry, and other exciting areas of current research. The book contains several appendices on related subjects, such as special relativity, the nature of symmetry groups, etc. There are also many examples and problems in the text that are of value in gauging the reader's understanding of the material. Contents:Rutherford ScatteringNuclear PhenomenologyNuclear ModelsNuclear RadiationApplications of Nuclear PhysicsEnergy Deposition in MediaParticle DetectionAcceleratorsProperties and Interactions of Elementary ParticlesSymmetriesDiscrete TransformationsNeutral Kaons, Oscillations, and CP ViolationFormulation of the Standard ModelStandard Model and Confrontation with DataBeyond the Standard Model Readership: Advanced undergraduates and researchers in nuclear and particle physics.

Keywords:Rutherford Scattering;Nuclear Properties;Nuclear Structure;Elementary Particles;Sub-Structure of Particles;Particle Detectors;Interactions in Matter;The Standard Model;Symmetries of Nature;Theories of Nuclear and Particle Structure;Radioactivity;SupersymmetryReviews: "The book by Das and Ferbel is particularly suited as a basis for a one-semester course on both subjects since it contains a very concise introduction to those topics and I like very much the outline and contents of this book." Kay Konigsmann Universität Freiburg, Germany "The book provides an introduction to the subject very well suited for the introductory course for physics majors. Presentation is very clear and nicely balances the issues of nuclear and particle physics, exposes both theoretical ideas and modern experimental methods. Presentation is also very economic and one can cover most of the book in a one-semester course. In the second edition, the authors updated the contents to reflect the very recent developments in the theory and experiment. They managed to do it without substantial increase of the size of the book. I used the first edition several times to teach the course 'Introduction to Subatomic Physics' and I am looking forward to use this new edition to teach the course next year." Professor Mark Strikman Pennsylvania State University, USA "This book can be recommended to those who find elementary particle physics of absorbing interest." Contemporary Physics '

Introduction to High Energy Physics-Donald H. Perkins 2000-04-13 This highly-regarded text provides a comprehensive introduction to modern particle physics. Extensively rewritten and updated, this 4th edition includes developments in elementary particle physics, as well as its connections with cosmology and astrophysics. As in previous editions, the balance between experiment and theory is continually emphasised. The stress is on the phenomenological approach and basic theoretical concepts rather than rigorous mathematical detail. Short descriptions are given of some of the key experiments in the field, and how they have influenced our thinking. Although most of the material is presented in the context of the Standard Model of quarks and leptons, the shortcomings of this model and new physics beyond its compass (such as supersymmetry, neutrino mass and oscillations, GUTs and superstrings) are also discussed. The text includes many problems and a detailed and annotated further reading list.

Quantum Mechanics Using Maple ®-Marko Horbatsch 2012-12-06 Quantum Mechanics Using Maple permits the study of quantum mechanics in a novel, interactive way using the computer algebra and graphics system Maple V. Usually the physics student is distracted from understanding the concepts of modern physics by the need to master unfamiliar mathematics at the same time. In 39 guided Maple sessions the reader explores many standard quantum mechanics problems, as well as some advanced topics that introduce approximation techniques. A solid knowledge of Maple V is acquired as it applies to advanced mathematics relevant for engineering, physics, and applied mathematics. The diskette contains 39 Maple V for Windows worksheet files to reproduce all the problems presented in the text. The suggested exercises can be performed with a minimum of typing.

[Books in print / Supplement] ; Books in print : BIP ; an author-title-series index. Supplement-Bowker Editorial Staff 1995

Gauge Theories in Particle Physics, Third Edition - 2 volume set-Ian J.R. Aitchison 2004-01-01 This two-volume set provides an accessible, practical, and comprehensive introduction to the three gauge theories of the standard model of particle physics: quantum electrodynamics (QED), quantum chromodynamics (QCD), and the electroweak theory. For each of them, the authors provide a thorough discussion of the main conceptual points, a detailed exposition of many practical calculations of physical quantities, and a comparison of these quantitative predictions with experimental results. For this third edition, much has been rewritten to reflect developments over the last decade, both in the curricula of university courses and in particle physics research. On the one hand, substantial new material has been introduced that is intended for use in undergraduate physics courses. New introductory chapters provide a precise historical account of the properties of quarks and leptons and a qualitative overview of the quantum field description of their interactions, at a level appropriate to third year courses. The chapter on relativistic quantum mechanics has been enlarged and is supplemented by additional sections on scattering theory and Green functions, in a form appropriate to fourth-year courses. On the other hand, since precision experiments now test the theories beyond lowest order in perturbation theory, an understanding of the data requires a more sophisticated knowledge of quantum field theory, including ideas of renormalization. The treatment of quantum field theory has therefore been considerably extended to provide a uniquely accessible and self-contained introduction to quantum field dynamics as described by Feynman graphs. The level is suitable for advanced fourth-year undergraduates and first-year graduates. These developments are all contained in the first volume, which ends with a discussion of higher order corrections in QED. The second volume is devoted to the non-Abelian gauge theories of QCD and the electroweak theory. As in the first two editions, emphasis is placed throughout on developing realistic calculations from a secure physical and

conceptual basis.

Particle Physics-Brian R. Martin 2013-03-22 An essential introduction to particle physics, with coverage ranging from the basics through to the very latest developments, in an accessible and carefully structured text. Particle Physics: Third Edition is a revision of a highly regarded introduction to particle physics. In its two previous editions this book has proved to be an accessible and balanced introduction to modern particle physics, suitable for those students needed a more comprehensive introduction to the subject than provided by the 'compendium' style physics books. In the Third Edition the standard model of particle physics is carefully developed whilst unnecessary mathematical formalism is avoided where possible. Emphasis is placed on the interpretation of experimental data in terms of the basic properties of quarks and leptons. One of the major developments of the past decade has been the establishing of the existence of neutrino oscillations. This will have a profound effect on the plans of experimentalists. This latest edition brings the text fully up-to-date, and includes new sections on neutrino physics, as well as expanded coverage of detectors, such as the LHC detector. End of chapter problems with a full set of hints for their solutions provided at the end of the book. An accessible and carefully structured introduction to this demanding subject. Includes more advanced material in optional 'starred' sections. Coverage of the foundations of the subject, as well as the very latest developments.

Energy Research Abstracts- 1985

Gauge Theory of Elementary Particle Physics-Ta-Pei Cheng 1994-08-02

Introduction to Elementary Particle Physics-Alessandro Bettini 2014-02-13 The second edition of this successful textbook is fully updated to include the discovery of the Higgs boson and other recent developments, providing undergraduate students with complete coverage of the basic elements of the standard model of particle physics for the first time. Physics is emphasised over mathematical rigour, making the material accessible to students with no previous knowledge of elementary particles. Important experiments and the theory linked to them are highlighted, helping students appreciate how key ideas were developed. The chapter on neutrino physics has been completely revised, and the final chapter summarises the limits of the standard model and introduces students to what lies beyond. Over 250 problems, including sixty that are new to this edition, encourage students to apply the theory themselves. Partial solutions to selected problems appear in the book, with full solutions and slides of all figures available at www.cambridge.org/9781107050402.

Books in Print- 1986

Concepts of Elementary Particle Physics-Michael E. Peskin 2019-05-29 The purpose of this textbook is to explain the Standard Model of particle physics to a student with an undergraduate preparation in physics. Today we can claim to have a fundamental picture of the strong and weak subnuclear forces. Through an interplay between theory and experiment, we have learned the basic equations through which these forces operate, and we have tested these equations against observations at particle accelerators. The story is beautiful and full of surprises. Using a simplified presentation that does not assume prior knowledge of quantum field theory, this book begins from basic concepts of special relativity and quantum mechanics, describes the key experiments that have clarified the structure of elementary particle interactions, introduces the crucial theoretical concepts, and builds up to the full description of elementary particle interactions as we know them today.

Practical Management Science-Wayne L. Winston 2006 This text takes an active-learning approach, providing numerous examples and problems so students can practice extensively with a concept before moving on. Four types of problems -- skill-building, skill-extending, modeling, and cases are graded within sections and chapters to help instructors assign homework. Another important feature is the way that the text integrates modeling into all functional areas of business: finance, marketing, operations management using real examples and real data. The text emphasizes modeling over algebraic formulations and memorization of particular models. Shell files are also provided so that instructors can give students as much or as little information as they need.

Quantum Field Theory and the Standard Model-Matthew D. Schwartz 2013-12-15 Modern introduction to quantum field theory for graduates, providing intuitive, physical explanations supported by real-world applications and homework problems.

Relativistic Quantum Mechanics and Field Theory-Franz Gross 2008-07-11 An accessible, comprehensive reference to modern quantum mechanics and field theory. In surveying available books on advanced quantum mechanics and field theory, Franz Gross determined that while established books were outdated, newer titles tended to focus on recent developments and disregard the basics. Relativistic Quantum Mechanics and Field Theory fills this striking gap in the field. With a strong emphasis on applications to practical problems as well as calculations, Dr. Gross provides complete, up-to-date coverage of both elementary and advanced topics essential for a well-rounded understanding of the field. Developing the material at a level accessible even to newcomers to quantum mechanics, the book begins with topics that every physicist should know-quantization of the electromagnetic field, relativistic one body wave equations, and the theoretical explanation of atomic decay. Subsequent chapters prepare readers for advanced work, covering such major topics as gauge theories, path integral techniques, spontaneous symmetry breaking, and an introduction to QCD, chiral symmetry, and the Standard Model. A special chapter is devoted to relativistic bound state wave equations-an important topic that is often overlooked in other books. Clear and concise throughout, Relativistic Quantum Mechanics and Field Theory boasts examples from atomic and nuclear physics as well as particle physics, and includes appendices with background material. It is an essential reference for anyone working in quantum mechanics today.

Nuclear and Particle Physics-Brian R. Martin 2011-08-31 An accessible introduction to nuclear and particle physics with equal coverage of both topics, this text covers all the standard topics in particle and nuclear physics thoroughly and provides a few extras, including chapters on experimental methods; applications of nuclear physics including fission, fusion and biomedical applications; and unsolved problems for the future. It includes basic concepts and theory combined with current and future applications. An excellent resource for physics and astronomy undergraduates in higher-level courses, this text also serves well as a general reference for graduate studies.

An Introduction to Gauge Theories and Modern Particle Physics-Elliot Leader 1996-03-14 A comprehensive treatment of modern theoretical and experimental particle physics, in two volumes.

Introduction to Experimental Particle Physics-Richard C. Fernow 1989-03-31 This book brings together the most important topics in experimental particle physics over the past forty years to give a brief but balanced overview of the subject. The author begins by reviewing particle physics and discussing electromagnetic and nuclear interactions. He then goes on to discuss three nearly universal aspects of particle physics experiments: beams, targets, and fast electronics. The second part of the book treats in detail the properties of various types of particle detector, such as scintillation counters, Cerenkov counters, proportional chambers, drift chambers, sampling calorimeters, and specialized detectors. Wherever possible the author attempts to enumerate the advantages and disadvantages of performance. Finally, he discusses aspects of specific experiments, such as properties of triggers, types of measurement, spectrometers, and the integration of detectors into coherent systems. Throughout the book, each chapter begins with a discussion of the basic principles involved, followed by selective examples.

Cosmology and Particle Astrophysics-Lars Bergström 2006-05-26 Beginning with basic facts about the observable universe, this book reviews the complete range of topics that make up a degree course in cosmology and particle astrophysics. The book is self-contained - no specialised knowledge is required on the part of the reader, apart from undergraduate math and physics. This paperback edition targets students of physics, astrophysics and cosmology from advanced undergraduate to early graduate level.

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.

Aspects of Symmetry-Sidney Coleman 1988-02-18 For almost two decades, Sidney Coleman has been giving review lectures on frontier topics in theoretical high-energy physics at the International School of Subnuclear Physics held each year at Erice, Sicily. This volume is a collection of some of the best of these lectures. To this day they have few rivals for clarity of exposition and depth of insight. Although very popular when first published, many of the lectures have been difficult to obtain recently. Graduate students and professionals in high-energy physics will welcome this collection by a master of the field.

Symmetries and Group Theory in Particle Physics-Giovanni Costa 2012-02-03 Symmetries, coupled with the mathematical concept of group theory, are an essential conceptual backbone in the formulation of quantum field theories capable of describing the world of elementary particles. This primer is an introduction to and survey of the underlying concepts and structures needed in order to understand and handle these powerful tools. Specifically, in Part I of the book the symmetries and related group theoretical structures of the Minkowskian space-time manifold are analyzed, while Part II examines the internal symmetries and their related unitary groups, where the interactions between fundamental particles are encoded as we know them from the present standard model of particle physics. This book, based on several courses given by the authors, addresses advanced graduate students and non-specialist researchers wishing to enter active research in the field, and having a working knowledge of classical field theory and relativistic quantum mechanics. Numerous end-of-chapter problems and their solutions will facilitate the use of this book as self-study guide or as course book for topical lectures.

Practical Statecharts in C/C++-Miro Samek 2002-01-07 'Downright revolutionary... the title is a major understatement... 'Quantum Programming' may ultimately change the way embedded software is designed.' -- Michael Barr, Editor-in-Chief, Embedded Systems Programming magazine (Click here

Modern Elementary Particle Physics-Gordon Kane 2017-03-08 This book is written for students and scientists wanting to learn about the Standard Model of

particle physics. Only an introductory course knowledge about quantum theory is needed. The text provides a pedagogical description of the theory, and incorporates the recent Higgs boson and top quark discoveries. With its clear and engaging style, this new edition retains its essential simplicity. Long and detailed calculations are replaced by simple approximate ones. It includes introductions to accelerators, colliders, and detectors, and several main experimental tests of the Standard Model are explained. Descriptions of some well-motivated extensions of the Standard Model prepare the reader for new developments. It emphasizes the concepts of gauge theories and Higgs physics, electroweak unification and symmetry breaking, and how force strengths vary with energy, providing a solid foundation for those working in the field, and for those who simply want to learn about the Standard Model.

Understanding the Universe-Don Lincoln 2012 This book explains the fascinating world of quarks and leptons and the forces that govern their behavior. Told from an experimental physicist's perspective, it forgoes mathematical complexity, using instead particularly accessible figures and apt analogies. In addition to the story of quarks and leptons, which are regarded as well-accepted fact, the author (who is a leading researcher at one of the world's highest energy particle physics laboratories) also discusses mysteries at both the experimental and theoretical frontiers, before tying it all together with the exciting field of cosmology and indeed the birth of the universe itself.

Library Journal- 1983

The Philosophy of Quantum Physics-Cord Friebe 2018-06-21 This book provides a thorough and up-to-date introduction to the philosophy of quantum physics. Although quantum theory is renowned for its spectacular empirical successes, controversial discussion about how it should be understood continue to rage today. In this volume, the authors provide an overview of its numerous philosophical challenges: Do quantum objects violate the principle of causality? Are particles of the same type indistinguishable and therefore not individual entities? Do quantum objects retain their identity over time? How does a compound quantum system relate to its parts? These questions are answered here within different interpretational approaches to quantum theory. Finally, moving to Quantum Field Theory, we find that the problem of non-locality is exacerbated. Philosophy of quantum physics is aimed at philosophers with an interest in physics, while also serving to familiarize physicists with many of the essential philosophical questions of their subject.

Technical Book Review Index- 1985

Experimental Techniques in High-Energy Nuclear and Particle Physics-T Ferbel 1991-11-27 Experimental Techniques in High-Energy Nuclear and Particle Physics is a compilation of outstanding technical papers and reviews of the ingenious methods developed for experimentation in modern nuclear and particle physics. This book, a second edition, provides a balanced view of the major tools and technical concepts currently in use, and elucidates the basic principles that underly the detection devices. Several of the articles in this volume have never been published, or have appeared in relatively inaccessible journals. Although the emphasis is on charged-particle tracking and calorimetry, general reviews of ionization detectors and Monte Carlo techniques are also included. This book serves as a compact source of reference for graduate students and experimenters in the fields of nuclear and particle physics, seeking information on some of the major ideas and techniques developed for modern experiments in these fields. Contents: Particle Detectors (K Kleinknecht) Principles of Operation of Multiwire Proportional and Drift Chambers (F Sauli) High-Resolution Electronic Particle Detectors (G Charpak & F Sauli) Calorimetry in High-Energy Physics (C Fabjan) Fluctuations in Calorimetry Measurements (U Amaldi) The Physics of Charged Particle Identification dE/dx , Cerenkov and Transition Radiation (W W M Allison and P R S Wright) A Two-Dimensional, Single-Photoelectron Drift Detector for Cherenkov Ring Imaging (E Barrelet et al.) Development of Proportional Counters Using Photosensitive Gases and Liquids (D F Anderson) Liquid-Argon Ionization Chambers as Total Absorption Detectors (W J Willis & V Radeka) Fundamental Properties of Liquid Argon, Krypton and Xenon as Radiation Detector Media (T Doke) Signal, Noise and Resolution in Position-Sensitive Detectors (V Radeka) Monte Carlo Theory and Practice (F James) High Resolution Hadron Calorimetry (R Wigmans) Readership: Nuclear and particle physicists. keywords: "... this book is well suited for active experimenters in the field who will appreciate very much the exhaustive reference ... the book may well serve as a basis for graduate students courses, particularly in view of the reasonable price of the volume." J. Phys. G: Nucl. Part. Phys.

Inclusive b Jet Production in Proton-Proton Collisions-Patrick L.S. Connor 2019-11-29 $\sqrt{s} = 74$ GeV and $|\eta| < 2.4$; the b jets must contain a B hadron. The measurement has significant statistics up to $p_T \sim O(\text{TeV})$. Advanced methods of unfolding are performed to extract the signal. It is found that fixed-order calculations with underlying event describe the measurement well.

Lectures on Quantum Mechanics-Steven Weinberg 2012-11-22 "Nobel Laureate Steven Weinberg combines his exceptional physical insight with his gift for clear exposition to provide a concise introduction to modern quantum mechanics. Ideally suited to a one-year graduate course, this textbook is also a useful reference for researchers. Readers are introduced to the subject through a review of the history of quantum mechanics and an account of classic solutions of the Schrödinger equation, before quantum mechanics is developed in a modern Hilbert space approach. The textbook covers many topics not often found in other books on the subject, including alternatives to the Copenhagen interpretation, Bloch waves and band structure, the Wigner-Eckart theorem, magic numbers, isospin symmetry, the Dirac theory of constrained canonical systems, general scattering theory, the optical theorem, the 'in-in' formalism, the Berry phase, Landau levels, entanglement and quantum computing. Problems are included at the ends of chapters, with solutions available for instructors at www.cambridge.org/9781107028722"--

Multiple Parton Interactions at the LHC-Paolo Bartalini 2018-11-08 Many high-energy collider experiments (including the current Large Hadron Collider at CERN) involve the collision of hadrons. Hadrons are composite particles consisting of partons (quarks and gluons), and this means that in any hadron-hadron collision there will typically be multiple collisions of the constituents — i.e. multiple parton interactions (MPI). Understanding the nature of the MPI is important in terms of searching for new physics in the products of the scatters, and also in its own right to gain a greater understanding of hadron structure. This book aims at providing a pedagogical introduction and a comprehensive review of different research lines linked by an involvement of MPI phenomena. It is written by pioneers as well as young leading scientists, and reviews both experimental findings and theoretical developments, discussing also the remaining open issues.

The Fundamental Particles and Their Interactions-William B. Rolnick 1994 This text presents the concepts of particle physics, including some of the experimental evidence of their discovery and verification, at an introductory level. Written in an easily accessible style, it provides students with the background and insights necessary to understand and appreciate key ideas, such as gauge theories, as well as the knowledge to interpret experimental results.

A First Book of Quantum Field Theory-Amitabha Lahiri 2005 This book introduces QFT for readers with no prior knowledge of the subject. It is meant to be a textbook for advanced undergraduate or beginning postgraduate students. The book discusses quantization of fields, S-matrix theory, Feynman diagrams, calculation of decay rates and cross sections, renormalization, symmetries and symmetry breaking. Some background material on classical field theory and group theory, needed for the exposition, are also presented in the book. Detailed calculations of weak and electromagnetic processes are included. There are many exercise problems to help the students, instructors and beginning researchers in the field. The second edition improves upon some notations and explanations, and includes answers to selected exercises.

An Introductory Course of Particle Physics-Palash B. Pal 2014-07-29 For graduate students unfamiliar with particle physics, An Introductory Course of Particle Physics teaches the basic techniques and fundamental theories related to the subject. It gives students the competence to work out various properties of fundamental particles, such as scattering cross-section and lifetime. The book also gives a lucid summary of the main ideas involved. In giving students a taste of fundamental interactions among elementary particles, the author does not assume any prior knowledge of quantum field theory. He presents a brief introduction that supplies students with the necessary tools without seriously getting into the nitty-gritty of quantum field theory, and then explores advanced topics in detail. The book then discusses group theory, and in this case the author assumes that students are familiar with the basic definitions and properties of a group, and even $SU(2)$ and its representations. With this foundation established, he goes on to discuss representations of continuous groups bigger than $SU(2)$ in detail. The material is presented at a level that M.Sc. and Ph.D. students can understand, with exercises throughout the text at points at which performing the exercises would be most beneficial. Anyone teaching a one-semester course will probably have to choose from the topics covered, because this text also contains advanced material that might not be covered within a semester due to lack of time. Thus it provides the teaching tool with the flexibility to customize the course to suit your needs.

Very High Energy Cosmic Gamma Radiation-Felix A. Aharonian 2004 Gamma ray astronomy, the branch of high energy astrophysics that studies the sky in energetic γ -ray photons, is destined to play a crucial role in the exploration of nonthermal phenomena in the Universe in their most extreme and violent forms. The great potential of this discipline offers impressive coverage of many OC hot topicsOCO of modern astrophysics and cosmology, such as the origin of galactic and extragalactic cosmic rays, particle acceleration and radiation processes under extreme astrophysical conditions, and the search for dark matter."

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