

World Scientific Lecture Notes in Physics – Vol. 41

MASSIVE NEUTRINOS IN PHYSICS AND ASTROPHYSICS

Rabindra N. Mohapatra

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Rabindra N Mohapatra, Palash B Pal



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Subatomic Physics (3rd Edition) Alejandro Garcia, Ernest M Henley, 2007-07-13 This is the third and fully updated edition of the classic textbook on physics at the subatomic level An up to date and lucid introduction to both particle and nuclear physics the book is suitable for both experimental and theoretical physics students at the senior undergraduate and beginning graduate levels Topics are introduced with key experiments and their background encouraging students to think and empowering them with the capability of doing back of the envelope calculations in a diversity of situations Earlier important experiments and concepts as well as topics of current interest are covered with extensive use of photographs and figures to convey principal concepts and show experimental data The coverage includes new material on Detectors and accelerators Nucleon elastic form factor data Neutrinos their masses and oscillations Chiral theories and effective field theories and lattice QCD Relativistic heavy ions RHIC Nuclear structure far from the region of stability Particle astrophysics and cosmology

Encyclopedia Of Cosmology, The - Set 2: Frontiers In Cosmology (In 3 Volumes) Claudia De Rham, Andrew J Tolley, 2023-09-21 The second set of The Encyclopedia of Cosmology in three volumes continues this major long lasting seminal reference at the graduate student level laid out by the most prominent researchers in the general field of cosmology Together these volumes will be a comprehensive review of the most important current topics in cosmology discussing the important concepts and current status in each field covering both theory and observation These three volumes are edited by Dr Giovanni Fazio from the Center for Astrophysics Harvard Smithsonian with each volume authored or edited by specialists in the area Modified Gravity by Claudia de Rham and Andrew Tolley Imperial College Neutrino Physics and Astrophysics edited by Floyd Stecker NASA Goddard Space Flight Center Black Holes edited by Zoltan Haiman Columbia University These volumes follow the earlier publication in 2020 of The Encyclopedia of Cosmology which comprises the following four volumes Galaxy Formation and Evolution by Rennan Barkana Tel Aviv University Numerical Simulations in Cosmology edited by Kentaro Nagamine Osaka University University of Nevada Dark Energy by Shinji Tsujikawa Tokyo University of Science and Dark Matter by Jihn E Kim Seoul National University The Encyclopedia aims to provide an overview of the most important topics in cosmology and serve as an up to date reference in astrophysics

Gauge Theories of the Strong, Weak, and Electromagnetic Interactions Chris Quigg, 2013-09-22 A thoroughly revised edition of a landmark textbook on gauge theories and their applications to particle physics This completely revised and updated graduate level textbook is an ideal introduction to gauge theories and their applications to high energy particle physics and takes an in depth look at two new laws of nature quantum chromodynamics and the electroweak theory From quantum electrodynamics through unified theories of the interactions among leptons and quarks Chris Quigg examines the logic and structure behind gauge theories and the experimental underpinnings of today s theories Quigg emphasizes how we know what we know and in the era of the Large Hadron Collider his insightful survey of the standard model and the next great questions for particle physics makes for

compelling reading The brand new edition shows how the electroweak theory developed in conversation with experiment Featuring a wide ranging treatment of electroweak symmetry breaking the physics of the Higgs boson and the importance of the 1 TeV scale the book moves beyond established knowledge and investigates the path toward unified theories of strong weak and electromagnetic interactions Explicit calculations and diverse exercises allow readers to derive the consequences of these theories Extensive annotated bibliographies accompany each chapter amplify points of conceptual or technical interest introduce further applications and lead readers to the research literature Students and seasoned practitioners will profit from the text s current insights and specialists wishing to understand gauge theories will find the book an ideal reference for self study Brand new edition of a landmark text introducing gauge theories Consistent attention to how we know what we know Explicit calculations develop concepts and engage with experiment Interesting and diverse problems sharpen skills and ideas Extensive annotated bibliographies

Massive Neutrinos In Physics And Astrophysics (Third Edition) Rabindra N Mohapatra, Palash B Pal, 2004-03-09 The recent groundbreaking discovery of nonzero neutrino masses and oscillations has put the spotlight on massive neutrinos as one of the key windows on physics beyond the standard model as well as into the early universe This third edition of the invaluable book Massive Neutrinos in Physics and Astrophysics is an introduction to the various issues related to the theory and phenomenology of massive neutrinos for the nonexpert providing at the same time a complete and up to date discussion on the latest results in the field for the active researcher It is designed not merely to be a guide but also as a self contained tool for research with all the necessary techniques and logics included Specially emphasized are the various implications of neutrino discoveries for the nature of new forces Elementary discussions on topics such as grand unification left right symmetry and supersymmetry are presented The most recent cosmological and astrophysical implications of massive neutrinos are also dealt with

Dark Matter in Astro- and Particle Physics Hans-Volker Klapdor-Kleingrothaus, Raoul D. Viollier, 2012-12-06 The Fourth HEIDELBERG International Conference on Dark Matter in Astro and Particle Physics DARK2002 was held in Cape Town South Africa in the period 4-9 February 2002 This majestic natural area was the site of the first conference of this series hosted since 1996 in Heidelberg to be held outside of Germany Dark Matter has become one of the most exciting and central fields of astrophysics particle physics and cosmology The conference covered as usual for this series a large range of topics theoretical and experimental Topics included Astronomical Evidence for Dark Matter the Cosmic Microwave Background Supersymmetry Inflation and Dark Energy Structure Formation Hot and Cold Dark Matter and Ultrahigh Energy Cosmic Rays all of which were represented by experts in the field It was very nice to see again many of our old friends in Dark Matter here in South Africa The organizers were very glad to see in addition to world experts the new generation here Many young participants gave very nice professional talks during the conference We are grateful to John Ellis for doing an incredible job preparing his excellent summary talk during the sessions Some special interest and intensive discussions were naturally raised by the first

announcement of terrestrial evidence for hot dark matter obtained from neutrino less double beta decay This now adds to the evidence for cold dark matter which we have from DAM A for several years already and which remained unchallenged up to now by other experiments

Seventy Years of Double Beta Decay H. V. Klapdor-Kleingrothaus, 2010 Ch 1 Double beta decay historical retrospective and perspectives 1 1 From the early days until the gauge theory era 1 2 The nuclear physics side nuclear matrix elements 1 3 Double beta decay neutrino mass models and cosmological parameters status and prospects 1 4 Other beyond standard model physics from SUSY and leptoquarks to compositeness and space time structure 1 5 The experimental race from the late eighties to the discovery of neutrino mass 1 6 The future of double beta decay 1 7 Conclusion ch 2 Original articles 2 1 From the early days until the gauge theory era 2 2 The nuclear physics side nuclear matrix elements 2 3 Double beta decay neutrino mass models and cosmological parameters status and prospects 2 4 Other beyond standard model physics from SUSY and leptoquarks to compositeness and space time structure 2 5 The experimental race from the late eighties to the discovery of neutrino mass 2 6 The future of double beta decay

Massive Neutrinos in Physics and Astrophysics Rabindra Nath Mohapatra, Palash B. Pal, 2004 An introduction to various issues related to the theory and phenomenology of massive neutrinos for the nonexpert also providing a discussion of results in the field for the active researcher All the necessary techniques and logics are included and topics such as supersymmetry are covered

Proceedings of the Indian National Science Academy Indian National Science Academy, 2004

Forthcoming Books

Rosemary N. M. Kenyon, 1989-09 International Books in Print, 1986

The Physics of Massive Neutrinos Boris Kayser, Frédéric Perrier, Françoise Gibart-Debu, 1989 This book explains the physics and phenomenology of massive neutrinos The authors argue that neutrino mass is not unlikely and consider briefly the search for evidence of this mass in decay processes before they examine the physics and phenomenology of neutrino oscillation The physics of Majorana neutrinos neutrinos which are their own antiparticles is then discussed This volume requires of the reader only a knowledge of quantum mechanics and of very elementary quantum field theory

The Physics Of Massive Neutrinos F Gibart-debu, B Kayser, F Perrier, 1989-02-01 This book explains the physics and phenomenology of massive neutrinos The authors argue that neutrino mass is not unlikely and consider briefly the search for evidence of this mass in decay processes before they examine the physics and phenomenology of neutrino oscillation The physics of Majorana neutrinos neutrinos which are their own antiparticles is then discussed This volume requires of the reader only a knowledge of quantum mechanics and of very elementary quantum field theory

Neutrinos In Physics And Astrophysics Esteban Roulet, Francesco Vissani, 2022-09-20 This book covers the field of neutrino physics and astrophysics providing an up to date presentation of the different research topics on the frontier of the field It starts with a historical description to understand how the different aspects of our knowledge about the neutrinos evolved up to the present state The main required elements of the Standard Model of electroweak interactions are introduced and the different neutrino interactions and detection techniques are presented We introduce the various ways to

give neutrinos a mass and the phenomenon of neutrino oscillations which provides the main evidence for non vanishing neutrino masses We then consider the neutrinos produced in the Sun what we have learned from them and how they can also be useful to study our star The geoneutrinos produced by the radioactivity in the Earth are discussed and the status of their detection is presented We survey the neutrino production in the supernova explosions at the end of the life of very massive stars what has been observed in SN1987A and what could be learned from a future supernova or from the observation of the diffuse supernova neutrino background We describe in detail the neutrino production by cosmic rays interacting in the atmosphere the evidence for their flavor oscillations and the oscillograms to describe their flavor change in terrestrial matter The different mechanisms of production of high energy astrophysical neutrinos and the observations achieved with the IceCube detector are presented also discussing their flavor content by means of the flavor triangle We then examine the cosmological neutrino background its impact on Big Bang nucleosynthesis and on the CMB observations with the associated bound on their masses and effective number Finally we review the basics of the leptogenesis scenarios which provide an attractive explanation for the observed baryon asymmetry of the Universe

Physics and Astrophysics of Neutrinos
 Masataka Fukugita, Atsuto Suzuki, 2013-12-14

Observations of neutrinos being emitted by the supernova SN1987A star neutrinos and atmospheric neutrinos by means of underground detectors have provided new insights into astronomy These observations have brought to light new unresolved phenomena such as the solar neutrino problem spurring investigative studies among particle physicists and astrophysicists Today intense interaction and continual cooperation between specialists in the field of particle physics and astronomy cosmology are a pre requisite for conducting further studies This book provides detailed elaborations on selected topics One of the most important features of this book is its enumeration of a number of basic properties of neutrinos and their relationship to Grand Unified Theories It does not cover all aspects of neutrino theory but rather focuses on the origin of the neutrino s mass and the generation mixing of neutrinos The neutrino experiments described were carried out mainly by Japanese researchers All the kamiokande results detector performances and complete references are included Experiments regarding the neutrino s mass are represented in the direct mass measurement the double beta decay experiment and the neutrino oscillation experiment The detection of low energy astrophysical neutrinos is discussed Particle acceleration mechanisms in astrophysics and the detection of high energy gamma rays and neutrinos are also represented

Neutrinos in Physics and Astrophysics P. Langacker, 2000 Neutrinos are the central thread in the study of many aspects of particle physics and astrophysics Neutrino interactions test the standard electroweak theory and its TeV scale extensions and examine the structure of the nucleon and of the CKM matrix Searches for neutrino mass and other intrinsic properties probe new physics at very short distance scales The weak interactions of neutrinos imply for them a unique role in studying the early universe the core of the Sun type II supernovae and active galactic nuclei and suggest the possibility of small neutrino masses contributing to the missing matter in the Universe especially on very large distance

scales Probing Particle Physics With Neutrino Telescopes Carlos Perez De Los Heros, 2019-12-23 This book introduces the reader to how fundamental topics in particle physics can be studied with the largest neutrino telescopes currently in operation. Due to their large size reaching cubic kilometer volumes and their wide energy response, these unusual detectors can provide insight on neutrino oscillations, dark matter searches, or searches for exotic particles, new neutrino interactions, or extra dimensions among many other topics. Lacking a man-made neutrino beam, neutrino telescopes use the copious flux of neutrinos continuously produced by cosmic rays interacting in the Earth's atmosphere as well as neutrinos from astrophysical origin. They have therefore access to neutrinos of higher energies and much longer baselines than those produced in present accelerators, being able to search for new physics at complementary scales than currently available in particle physics laboratories around the world. Written by carefully chosen experts in the field, the book introduces each topic in a pedagogical way, apt not only to professionals but also to students or the interested reader with a background in physics.

Massive Neutrinos: Flavor Mixing Of Leptons And Neutrino Oscillations Harald Fritzsch, 2015-08-28 Since the discovery of neutrino oscillations, neutrino physics has become an interesting field of research in physics. They imply that neutrinos must have a small mass and that the neutrinos coupled to the charged leptons are mixtures of the mass eigenstates analogous to the flavor mixing of the quarks. The mixing angles for the quarks are small, but for the leptons two of the mixing angles are large. The masses of the three neutrinos must be very small, less than 1 eV, but from the oscillation experiments we only know the mass differences; the absolute masses are still unknown. Also, we do not know if the masses of the neutrinos are Dirac masses as the masses of the charged leptons and of the quarks, or whether they are Majorana masses. In this volume, an overview of the present state of research in neutrino physics is given by well-known experimentalists and theorists. The contents originated from talks and discussions at a recent conference addressing some of the most pressing open questions in neutrino physics, range from the oscillation experiments to CP violation for leptons, to texture-zero mass matrices and to the role of neutrinos in astrophysics and cosmology.

Introduction to the Physics of Massive and Mixed Neutrinos Samoil Bilenky, 2018-04-02 Small neutrino masses are the first signs of new physics beyond the Standard Model of particle physics. Since the first edition of this textbook appeared in 2010, the Nobel Prize has been awarded for the discovery of neutrino oscillations, which shows that neutrinos have mass. The measurement of the small neutrino mixing angle θ_{13} in 2012 launched the precision stage of the investigation of neutrino oscillations. This measurement now allows such fundamental problems as the three neutrino mass spectrum: is it normal or inverted, and the CP violation in the lepton sector to be tackled. In order to understand the origin of small neutrino masses, it remains crucial to reveal the nature of neutrinos with definite masses: are they Dirac neutrinos possessing a conserved lepton number, which distinguishes neutrinos and antineutrinos, or are they Majorana neutrinos with identical neutrinos and antineutrinos. Experiments searching for the neutrinoless double beta decay are presently under way to answer this fundamental question. The second edition of this book

comprehensively discusses all these important recent developments Based on numerous lectures given by the author a pioneer of modern neutrino physics recipient of the Bruno Pontecorvo Prize 2002 at different institutions and schools it offers a gentle yet detailed introduction to the physics of massive and mixed neutrinos that prepares graduate students and young researchers entering the field for the exciting years ahead in neutrino physics **Physics of Neutrinos** Masataka

Fukugita,Tsutomu Yanagida,2013-06-29 This book aims to provide a survey of the current state of research in the physics of neutrinos which has undergone dramatic development during the last decade in a form accessible to the nonspecialist and the graduate student The major issue during the last two decades has been the neutrino mass whereas the interaction of neutrinos was well understood within the framework of the standard theory which was established in the 1970s In 1994 we published a textbook format review article Physics 01 Neutrinos in Physics and Astrophysics 01 Neutrinos in anticipation that the mass of the neutrino would be found in the near future It was indeed found thanks to the Super Kamiokande experiment four years after that book was written and a flurry of activity followed in the phenomenology of the neutrino mass From the theoretical point of view the importance of this discovery stems from the fact that it probably indicates the presence of a new energy scale beyond the standard theory At the same time the formalism for massive neutrinos and the techniques to find the neutrino mass have now realistic importance and have become the subject of standard physics On the other hand experiment revealed that the pattern of the neutrino mass and mixing among generations appears in a way different from what has been speculated on the basis of existing theoretical models Neutrino Physics Kai Zuber,2020-05-11 When Kai Zuber s

pioneering text on neutrinos was published in 2003 the author correctly predicted that the field would see tremendous growth in the immediate future In that book Professor Zuber provided a comprehensive self contained examination of neutrinos covering their research history and theory as well as their application to particle physics astrophysics nuclear physics and the broad reach of cosmology but now to be truly comprehensive and accurate the field s seminal reference needs to be revised and expanded to include the latest research conclusions and implications Revised as needed to be equal to the research of today Neutrino Physics Third Edition delves into neutrino cross sections mass measurements double beta decay solar neutrinos neutrinos from supernovae and high energy neutrinos as well as entirely new experimental results in the context of theoretical models Written to be accessible to graduate students and readers from diverse backgrounds this edition like the first provides both an introduction to the field as well as the information needed by those looking to make their own contributions to it And like the second edition it whets the researcher s appetite going beyond certainty to pose those questions that still need answers Features Presents the only single author comprehensive text on neutrino physics Includes experimental and theoretical particle physics and examines solar neutrinos and astroparticle implications Offers details on new developments and recent experiments

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