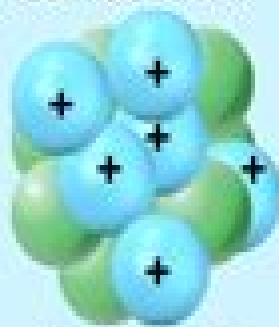


Beta Decay

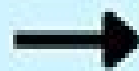
Beta decay is radioactive decay that either releases an electron (beta minus) or positron (beta plus).

carbon-14

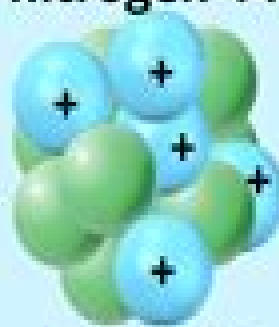


6 protons
8 neutrons

β^-



nitrogen-14



7 protons
7 neutrons

+

antineutrino



+

electron



carbon-10



6 protons
4 neutrons

β^+



boron-10



5 protons
5 neutrons

+

neutrino



+

positron



Nuclear Beta Decays And The Neutrino

A. Morales, J. Morales, J. A. Villar



Nuclear Beta Decays And The Neutrino:

Nuclear Beta Decays and Neutrino Tsuneyuki Kotani, Hiroyasu Ejiri, E. Takasugi, 1986 **Sixty Years Of Double Beta Decay: From Nuclear Physics To Beyond Standard Model** Hans Volker Klapdor-Kleingrothaus, 2001-04-30 Nuclear double beta decay is one of the most promising tools for probing beyond the standard model physics on beyond accelerator energy scales It is already now probing the TeV scale on which new physics should manifest itself according to theoretical expectations Only in the early 1980s was it known that double beta decay yields information on the Majorana mass of the exchanged neutrino At present the sharpest bound for the electron neutrino mass arises from this process It is only in the last 10 years that the much more far reaching potential of double beta decay has been discovered Today the potential of double beta decay includes a broad range of topics that are equally relevant to particle physics and astrophysics such as masses of heavy neutrinos of sneutrinos as SUSY models compositeness leptoquarks left right symmetric models and tests of Lorentz symmetry and equivalence principle in the neutrino sector Double beta decay has become indispensable nowadays for solving the problem of the neutrino mass spectrum and the structure of the neutrino mass matrix together with present and future solar and atmospheric neutrino oscillation experiments Some future double beta experiments like GENIUS will be capable to be simultaneously neutrino observatories for double beta decay and low energy solar neutrinos and observatories for cold dark matter of ultimate sensitivity This invaluable book outlines the development of double beta research from its beginnings until its most recent achievements and also presents the outlook for its highly exciting future **Sixty Years of Double Beta Decay** Hans Volker Klapdor-Kleingrothaus, 2001 Nuclear double beta decay is together with proton decay one of the most promising tools for probing beyond the standard model physics on beyond accelerator energy scales It is already probing the TeV scale on which new physics should manifest itself according to theoretical expectations Only in the early 1980s was it known that double beta decay yields information on the Majorana mass of the exchanged neutrino At present the sharpest bound for the electron neutrino arises from this process It is only in the last 10 years that the much more far reaching potential of double beta decay has been discovered Today the potential of double beta decay includes a broad range of topics that are equally relevant to particle physics astrophysics such as masses of heavy neutrinos the sneutrino SUSY models compositeness leptoquarks right handed W bosons This invaluable book outlines the development of double beta research from its beginnings until its most recent achievements also presents the outlook for its highly exciting future Readership Particle physicists nuclear physicists astrophysicists **Seventy Years Of Double Beta Decay: From Nuclear Physics To Beyond-standard-model Particle Physics** Hans Volker Klapdor-Kleingrothaus, 2010-03-25 In the last 20 years the disciplines of particle physics astrophysics nuclear physics and cosmology have grown together in an unprecedented way A brilliant example is nuclear double beta decay an extremely rare radioactive decay mode which is one of the most exciting and important fields of research in particle physics at present and the flagship of non accelerator particle physics While

already discussed in the 1930s only in the 1980s was it understood that neutrinoless double beta decay can yield information on the Majorana mass of the neutrino which has an impact on the structure of space time Today double beta decay is indispensable for solving the problem of the neutrino mass spectrum and the structure of the neutrino mass matrix The potential of double beta decay has also been extended such that it is now one of the most promising tools for probing beyond the standard model particle physics and gives access to energy scales beyond the potential of future accelerators This book presents the breathtaking manner in which achievements in particle physics have been made from a nuclear physics process Consisting of a 150 page highly factual overview of the field of double beta decay and a 1200 page collection of the most important original articles the book outlines the development of double beta decay research theoretical and experimental from its humble beginnings until its most recent achievements with its revolutionary consequences for the theory of particle physics It further presents an outlook on the exciting future of the field Neutrino nuclear responses for astro-particle physics by nuclear reactions and nuclear decays Hiroyasu Ejiri, Francesco Cappuzzello, Theodoros S. Kosmas, 2023-07-05

The Physics Associated with Neutrino Masses Diego Aristizabal Sierra, Frank Franz Deppisch, Alexander Merle, 2020-01-13 This eBook is a collection of articles from a Frontiers Research Topic Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series they are collections of at least ten articles all centered on a particular subject With their unique mix of varied contributions from Original Research to Review Articles Frontiers Research Topics unify the most influential researchers the latest key findings and historical advances in a hot research area Find out more on how to host your own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office frontiersin.org about contact Progress in atomic physics neutrinos and gravitation G. Chardin, 1992 *Physics of Massive Neutrinos* Felix Boehm, Petr Vogel, 1992-06-26 Neutrinos play a decisive part in nuclear and elementary particle physics as well as in astrophysics and cosmology Some of their most basic properties such as their mass and charge conjugation symmetry are largely unknown This book focuses on what we know and may hope to know about the mass of the neutrino and its particle antiparticle symmetry Topics include neutrino mixing neutrino decay neutrino oscillations double beta decay solar neutrinos supernova neutrinos and related issues The authors stress the physical concepts and discuss both theoretical and experimental techniques This updated second edition differs from the first in that it contains an expanded coverage of experimental results and theoretical advances Since publication of the first edition many issues that were at that time unresolved such as tritium beta decay and reactor neutrino oscillations have been clarified and are discussed here Also included is an expanded coverage of solar and supernova neutrinos This book deals with one of the most intriguing issues in modern physics and will be of value to researchers graduate students and advanced undergraduates specializing in experimental and theoretical particle physics and nuclear physics *Neutrino Models and Baryogenesis* Ng. K. Francis, 2018-03-30 Undeniably today Neutrino Physics has become an important and emerging new field of intense research

in Physics around the globe The accolades received by the Neutrino Physicists speak volume about it Besides numerous other prizes there have been four Nobel Prizes to its credit The latest being the 2015 Nobel Prize in Physics to Professor Takaaki Kajita and Professor Arthur B McDonald for discovery of neutrino oscillations This important breakthrough discovery which was first declared by Super KamioKande at the Takayama Conference NEUTRINO 98 can be termed as the watershed moment in the history of neutrino physics With this discovery the study of neutrino physics has established a firm foundation And matter antimatter asymmetry of the universe is one of the open problems in cosmology Thus connecting a low energy to a high energy physics is an issue of both particle physicists and cosmologists Good number of books on neutrino physics have been written but not on baryogenesis And importantly complete detailed books connecting these two beautiful subjects are yet to be written The present book though not a complete detailed book is a modest attempt in that direction The book attempts to find out the above unknown properties of neutrinos and study its implications to cosmology **Neutrino**

Physics and Astrophysics Y. Suzuki, Y. Totsuka, 1999-07-28 The scientific program of these important proceedings was arranged to cover most of the field of neutrino physics In light of the rapid growth of interest stimulated by new interesting results from the field more than half of the papers presented here are related to the neutrino mass and oscillations including atmospheric and solar neutrino studies Neutrino mass and oscillations could imply the existence of a mass scale many orders of magnitudes higher than presented in current physics and will probably guide scientists beyond the standard model of particle physics *Nuclear Physics. Part A*, 1961-01-01 Nuclear Physics Part A *Neutrino Oscillations* Fumihiko

Suekane, 2015-03-23 Neutrino oscillation N O is the only firm evidence of the physics beyond the Standard Model of particle physics and is one of the hottest topics in elementary particle physics today This book focuses on the N O from its history to the future prospects from the basic theories to the experiments Various phenomena of N O are described intuitively with thorough explanations of the fundamental physics behind well known formulations For example while many textbooks start with a discussion of the mixing matrix this book stresses that N O is caused by the transition amplitudes between different neutrino flavors and that the purpose of N O experiments is to measure transition amplitudes and think of its origin The current understanding of neutrino oscillation is also summarized using the most up to date measurements including the recently measured neutrino mixing angle 13 and the future prospects of N O studies are described as well The level of this book makes it a bridge between introductory textbooks and scientific papers **Neutrinos** Hans V. Klapdor, 2012-12-06

Neutrinos play a fundamental role in the latest particle physics theories such as Grand Unified Theories theories of supersymmetry and superstring theory Their mass yields an important boundary condition for grand unification models They are the best candidates for dark matter in the universe and their mass could determine its large scale structure and evolution Neutrinos probe the interior of collapsing stars and understanding them may lead to a solution of the solar neutrino problem In ten chapters written by experts in each of these fields this book gives a comprehensive presentation of our current

knowledge of the neutrino of its role in nuclear particle and astrophysics theories and of ongoing experimental efforts to learn more about its own nature Graduate students and researchers in these fields will find this book a reliable advanced text and source of reference *Low Energy Solar Neutrino Detection, Proceedings Of The 2nd International Workshop*

Shigetaka Moriyama, Masayuki Nakahata, Yoichiro Suzuki, 2002-01-14 This proceedings volume presents discussions on the technical aspect of the detection of low energy solar neutrinos Most of the problems related to the experiments aiming to measure low energy solar neutrinos are dealt with *TAUP 91* A. Morales, J. Morales, J. A. Villar, 2016-06-03 TAUP 91 covers the proceedings of the Second International Workshop on Theoretical and Phenomenological Aspects of Underground Physics held in Toledo Spain on September 9-13 1991 The book focuses on the processes methodologies reactions and transformations involved in underground physics The selection first offers information on the fundamental issues in particle astrophysics and an overview of the problems related to general cosmology Topics include connections between particle physics astrophysics and cosmology stellar physics and particles astrophysical ages cosmic background radiation and abundances of light elements The text also takes a look at big bang nucleosynthesis constraints on new physics and microwave background radiation The publication ponders on very wide band interferometric gravitational wave antenna and search for stellar gravitational collapse by macro The text also examines high energy cosmic neutrinos of acceleration and non acceleration origin tests of general relativity and Newtonian gravity at large distances and the dark matter problem and nuclear form factors for the scattering of neutralinos The selection is a valuable reference for readers interested in underground physics **New Initiatives On Lepton Flavor Violation And Neutrino Oscillation With High Intense Muon And Neutrino Sources**

Yoshitaka Kuno, William R Molzon, Sandip Pakvasa, 2002-10-07 The area of physics involving muons and neutrinos has become exciting in particle physics Using their high intensity sources physicists undertake in various ways extensive searches for new physics beyond the Standard Model such as tests of supersymmetric grand unification SUSY GUT and precision measurements of the muon and neutrino properties which will in future extend to ambitious studies such as determination of the three generation neutrino mixing matrix elements and CP violation in the lepton sector The physics of this field is advancing with potential improvements of the sources Many R D projects such as those concerning high intensity low energy muon sources or a neutrino factory are being carried out or planned at various places Some of those topics are included in this book **Treatise on Geochemistry**, 2013-10-19 This extensively updated new edition of the widely acclaimed Treatise on Geochemistry has increased its coverage beyond the wide range of geochemical subject areas in the first edition with five new volumes which include the history of the atmosphere geochemistry of mineral deposits archaeology and anthropology organic geochemistry and analytical geochemistry In addition the original Volume 1 on Meteorites Comets and Planets was expanded into two separate volumes dealing with meteorites and planets respectively These additions increased the number of volumes in the Treatise from 9 to 15 with the

index appendices volume remaining as the last volume Volume 16 Each of the original volumes was scrutinized by the appropriate volume editors with respect to necessary revisions as well as additions and deletions As a result 27% were republished without major changes 66% were revised and 126 new chapters were added In a many faceted field such as Geochemistry explaining and understanding how one sub field relates to another is key Instructors will find the complete overviews with extensive cross referencing useful additions to their course packs and students will benefit from the contextual organization of the subject matter Six new volumes added and 66% updated from 1st edition The Editors of this work have taken every measure to include the many suggestions received from readers and ensure comprehensiveness of coverage and added value in this 2nd edition The esteemed Board of Volume Editors and Editors in Chief worked cohesively to ensure a uniform and consistent approach to the content which is an amazing accomplishment for a 15 volume work 16 volumes including index volume

Neutrino Physics and Astrophysics Ettore Fiorini, 2013-03-13 Neutrino 80 held at the Ettore Majorana Center for Scientific Culture in Erice was the tenth of a series of International Conferences on Neutrino Physics and Astrophysics It also marked the fiftieth anniversary of the first mention by Wolfgang Pauli of a neutral particle emitted in beta decay The conference occurred at a very propitious time in neutrino physics the possibility of a non zero neutrino mass and of neutrino oscillations has obvious implications of great importance in neutrino astrophysics and cosmology as well as in the grand unified theories In order to encourage contacts and discussions among the various experts in different branches of neutrino physics and astrophysics the conference was based only on plenary sessions and mainly on review talks Short communications were accepted only if they bore new and unexpected results which could not be covered in the appropriate review I would like to thank the participants for their understanding of this often unpopular rule I take this opportunity to express my gratitude to the members of the International Advisory Committee to George Marx Secretary of the on going International Neutrino Committee to the rapporteurs and session chairmen Thanks are especially due to Antonino Zichichi Director of the Ettore Majorana Centre for Scientific Culture for the warm and generous hospitality extended to us and to Alberto Gabriele and Pinola Savalli for their untiring efforts to make our stay in Erice as enjoyable as fruitful

Lampf Users Group Inc. (Lugi) Symposium: 20 Years Of Meson Factory Physics: Accomplishments And Prospects Benjamin F Gibson, Cyrus M Hoffman, Peter D Barnes, Vernon W Hughes, 1997-10-22 This book reviews the major physics results from the meson factories surveys the status of the relevant fields including pion physics hadron physics and electroweak physics and explores prospects for further progress

Neutrinos in High Energy and Astroparticle Physics Jose Wagner Furtado Valle, Jorge Romao, 2015-04-20 This self contained modern textbook provides a modern description of the Standard Model and its main extensions from the perspective of neutrino physics In particular it includes a thorough discussion of the varieties of seesaw mechanism with or without supersymmetry It also discusses schemes where neutrino mass arises from lighter messengers which might lie within reach of the world's largest particle accelerator the Large

Hadron Collider Throughout the text the book stresses the role of neutrinos due to the fact that neutrino properties may serve as a guide to the correct model of unification hence for a deeper understanding of high energy physics and because neutrinos play an important role in astroparticle physics and cosmology Each chapter includes summaries and set of problems as well as further reading

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