

## *$0\nu\beta\beta$ - decay: heavy particle exchange*

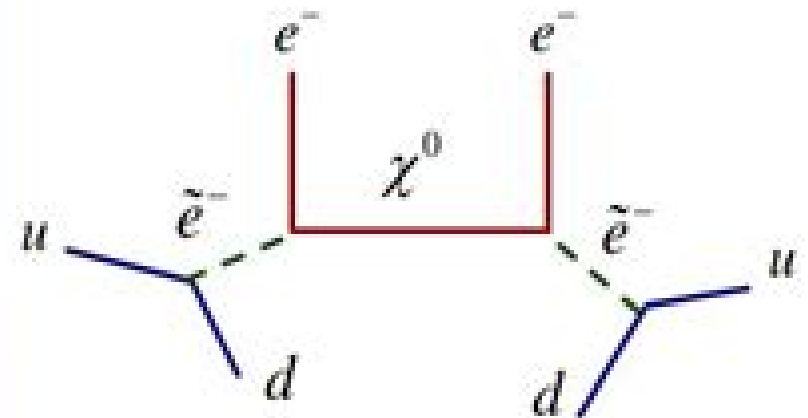
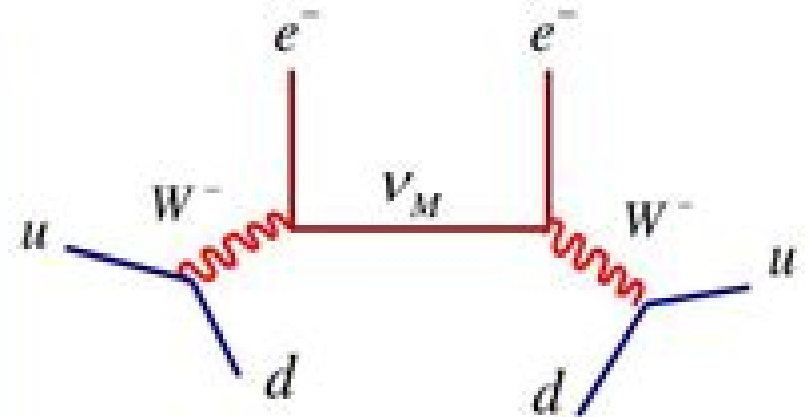
$$\frac{M_H}{M_L} \sim \frac{M_W^4 \bar{k}^2}{\Lambda_{\beta\beta}^5 m_{\beta\beta}} \sim O(1)$$

$$m_{\beta\beta} \sim 0.1 \text{ eV}$$

$$\Lambda_{\beta\beta} \sim 1 \text{ TeV}$$

$$\bar{k} \sim 50 \text{ MeV}$$

*How do we compute & separate heavy particle exchange effects?*



# Fundamental Symmetries In Nuclei And Particles

**Peter D. Barnes**



## **Fundamental Symmetries In Nuclei And Particles:**

**Fundamental Symmetries in Nuclei and Particles** Herb Henrikson, Petr Vogel, 1990 *Fundamental Symmetries in Nuclei and Particles* H. Henrikson, 1990 **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 Physics Briefs ,1993 Particles and Nuclei Bogdan Povh, Klaus Rith, Christoph Scholz, Frank Zetsche, 2008-10-10 To cope with modern developments especially in nuclear physics research this textbook presents nuclear and particle physics from a unifying point of view The first part Analysis is devoted to disentangling the substructure of matter The second part Synthesis shows how the elementary particles may be combined to build hadrons and nuclei A section on neutrino oscillations and one on nuclear matter at high temperatures bridge the field of nuclear and particle physics and modern astrophysics and cosmology New developments are also covered This concise text has become a standard reference for advanced and undergraduate courses **Proceedings of the First International Symposium on Particles, Strings, and Cosmology, Northeastern University, Boston, USA, 27-31 March 1990** ,1991 **In Memory Of Vernon Willard Hughes - Proceedings Of The Memorial Symposium In Honor Of Vernon Willard Hughes** Emlyn Willard Hughes, Francesco Iachello, 2004-12-22 On March 25 2003 Professor Vernon Hughes of Yale University passed away in New Haven Connecticut His career in physics extended over more than 50 years and his highly influential research work contributed invaluable to numerous fundamental questions in physics This book comprises a compilation of articles covering talks given at the Vernon Willard Hughes Memorial Symposium which took place at Yale University in November 2003 The fascinating contributions from many leading experimental and theoretical physicists cover topics in atomic nuclear and particle physics as well as include remarks made by Professor Alan Bromley at the symposium dinner The book also features the Biographical Memoirs of Professor Hughes written by Professor Robert Adair for the US National Academy of Sciences and a complete list of Professor Hughes s publications The proceedings have been selected for coverage in Index to Scientific

Technical Proceedings ISTP ISI Proceedings Index to Scientific Technical Proceedings ISTP CDROM version ISI Proceedings CC Proceedings Engineering Physical Sciences      **Guide to Programs** National Science Foundation (U.S.),1997      **Weak And Electromagnetic Interactions In Nuclei - Proceedings Of 3rd International Symposium (Wein-9)** T S D Vyllov,1993-03-30 This volume presents the experimental and theoretical methods of studying soft interaction physics in high energy collisions The topics include dynamical and Bose Einstein correlations multiplicity fluctuation soft photons disoriented chiral condensate self similarity and self affine behaviors wavelet analysis intermittency chaos and phase transition      **From Nucleons to the Atomic Nucleus** Kris Heyde,2013-03-09 The present text grew out of a number of lecture courses for advanced under graduate and new graduate students in nuclear physics They were given at summer schools in Leuven Melbourne and at study weeks for Dutch graduate students which aimed to emphasize fundamental and topical aspects of nuclear physics On occasion part of the present text was presented to students from a much wider field than just nuclear physics and also within a number of general physics colloquia where in addition to nuclear physicists physicists from many other fields were present In this respect the intention is to present in an amply illustrated form the key questions that arise in nuclear physics At the same time we try to show why a better understanding of the atomic nucleus is not only important in itself but also yields essential insights into the many connections to other fields of physics We thus concentrate on the unifying themes rather than addressing in great detail particular subfields of nuclear physics The present project does not aim to be another comprehensive textbook on nuclear physics Many of the detailed technical arguments that enter into the picture are not developed here as they would be in a more standard textbook Instead they are presented using analogies quite often with simple pictures and arguments that try to convey the general line of thinking and working in nuclear physics

*A Festschrift in Honor of Vernon W. Hughes* Michael E. Zeller,1992 The contents of this book are derived from a celebration of the 70th birthday of Vernon W Hughes Professor Hughes career has touched on several areas in modern physics ranging from precision measurements of the fundamental properties of atoms to measurements of spin structure functions of the proton via deep inelastic muon scattering at the world's highest energy fixed target machines This observance of his 70th birthday brings together experimental and theoretical physicists who are leaders of the many fields in which he has made contributions

*A Festschrift For Vernon Hughes* Michael E Zeller,1992-07-15 The contents of this book are derived from a celebration of the 70th birthday of Vernon W Hughes Professor Hughes career has touched on several areas in modern physics ranging from precision measurements of the fundamental properties of atoms to measurements of spin structure functions of the proton via deep inelastic muon scattering at the world's highest energy fixed target machines This observance of his 70th birthday brings together experimental and theoretical physicists who are leaders of the many fields in which he has made contributions

*Particles and Nuclei* Peter D. Barnes,2006-10-04 This is the proceedings of the 17th International Conference on Particles and Nuclei Santa Fe New Mexico USA which was concerned with new

developments in experimental and theoretical particle physics nuclear physics and cosmology and the intersections of these fields which will help us understand our Universe more completely The participants reported on new developments in instrumentation including large scale facilities such as accelerators that will be essential for future work *Energy and Water Development Appropriations for 2015: Department of Energy: Secretary of Energy* United States. Congress. House. Committee on Appropriations. Subcommittee on Energy and Water Development,2014 *Handbook of Nuclear Physics* Isao Tanihata,Hiroshi Toki,Toshitaka Kajino,2023-09-04 This handbook is a comprehensive systematic source of modern nuclear physics It aims to summarize experimental and theoretical discoveries and an understanding of unstable nuclei and their exotic structures which were opened up by the development of radioactive ion RI beam in the late 1980s The handbook comprises three major parts In the first part the experiments and measured facts are well organized and reviewed The second part summarizes recognized theories to explain the experimental facts introduced in the first part Reflecting recent synergistic progress involving both experiment and theory the chapters both parts are mutually related The last part focuses on cosmo nuclear physics one of the mainstream subjects in modern nuclear physics Those comprehensive topics are presented concisely Supported by introductory reviews all chapters are designed to present their topics in a manner accessible to readers at the graduate level The book therefore serves as a valuable source for beginners as well helping them to learn modern nuclear physics *Opportunities With Exotic Beams - Proceedings Of The Third Anl/msu/jina/int Ria Workshop* Thomas Duguet,Henning Esbensen,Kenneth M Nollett,Craig D Roberts,2007-03-06 This volume explores explains and supports the case for an advanced exotic beam facility from a theoretical perspective The US nuclear physics community and the US Department of Energy are committed to building such a facility The topics covered constitute a survey of present activities in nuclear theory that will set the challenges for an advanced exotic beam facility and provide the starting point for interpreting experiments that will be conducted there The research programs described are all at the forefront of nuclear theory and they include research on the detailed structures of the lightest nuclei systematic descriptions of all observed nuclei nuclear tests of fundamental symmetries of nature the explosion mechanisms of supernovae and astrophysical synthesis of the heavy elements as well as several other topics **Nuclear Physics And Gamma-ray Sources For Nuclear Security And Nonproliferation - Proceedings Of The International Symposium** Takehito Hayakawa,Ryoichi Hajima,Michio Seya,Paul Bolton,Masao Senzaki,Mamoru Fujiwara,2014-10-24 Nuclear nonproliferation is a critical global issue A key technological challenge to ensuring nuclear nonproliferation and security is the detection of long lived radioisotopes and fissionable nuclides in a non destructive manner This technological challenge requires new methods for detecting relevant nuclides and the development of new quantum beam sources For example one new method that has been proposed and studied is nuclear resonance fluorescence with energy tunable monochromatic gamma rays generated by Compton scattering of laser photons with electrons The development of new methods requires the help of researchers from a

wide range of fields such as nuclear physics accelerator physics laser physics etc Furthermore any new method must be compatible with the requirements of administrators and nuclear material inspectors **LASER 2006** K. Marinova,Z. Blaszcak,B. Markov,2010-04-15 This volume contains papers presented at the 6th International Workshop on Application of Lasers in Atomic Nuclei Research LASER 2006 held in Poznan Poland May 29 June 01 2006 Researchers and PhD students interested in recent results in the nuclear structure investigation by laser spectroscopy the progress of the experimental technique and the future developments in the field will find this volume indispensable *New Horizons in Fundamental Physics* Stefan Schramm,Mirko Schäfer,2016-11-11 This volume presents the state of the art in selected topics across modern nuclear physics covering fields of central importance to research and illustrating their connection to many different areas of physics It describes recent progress in the study of superheavy and exotic nuclei which is pushing our knowledge to ever heavier elements and neutron richer isotopes Extending nuclear physics to systems that are many times denser than even the core of an atomic nucleus one enters the realm of the physics of neutron stars and possibly quark stars a topic that is intensively investigated with many ground based and outer space research missions as well as numerous theoretical works By colliding two nuclei at very high ultra relativistic energies one can create a fireball of extremely hot matter reminiscent of the universe very shortly after the big bang leading to a phase of melted hadrons and free quarks and gluons the so called quark gluon plasma These studies tie up with effects of crucial importance in other fields During the collision of heavy ions electric fields of extreme strength are produced potentially destabilizing the vacuum of the atomic physics system subsequently leading to the decay of the vacuum state and the emission of positrons In neutron stars the ultra dense matter might support extremely high magnetic fields far beyond anything that can be produced in the laboratory significantly affecting the stellar properties At very high densities general relativity predicts the stellar collapse to a black hole However a number of current theoretical activities modifying Einstein s theory point to possible alternative scenarios where this collapse might be avoided These and related topics are addressed in this book in a series of highly readable chapters In addition the book includes fundamental analyses of the practicalities involved in transiting to an electricity supply mainly based on renewable energies investigating this scenario less from an engineering and more from a physics point of view While the topics comprise a large scope of activities the contributions also show an extensive overlap in the methodology and in the analytical and numerical tools involved in tackling these diverse research fields that are the forefront of modern science **Fiscal Year 2000 Department of Energy Budget Authorization Request, Parts I and II** United States. Congress. House. Committee on Science. Subcommittee on Energy and Environment,2000

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