

# Dunkle Materie Physik

**Jahrbuch der Erfindungen und Fortschritte auf den Gebieten der Physik, Chemie und chemischen Technologie, der Astronomie und Meteorologie** 1882

*Handbuch der Physik: Allgemeine Grundlagen der Physik, redigiert von Hans Thirring* Hans Geiger 1929

*Encyclopedia of physics* 1959

*Sixty Years of Double Beta Decay* H. V. Klapdor-Kleingrothaus 2001 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 OCo 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. Contents: Double Beta Decay OCo Historical Retrospective and Perspectives; Original Articles: From the Early Days until the Gauge Theory Era; The Nuclear Physics Side OCo Nuclear Matrix Elements; The Nuclear Physics Side OCo Nuclear Matrix Elements; Effective Neutrino Masses from Double Beta Decay, Neutrino Mass Models and Cosmological Parameters OCo Present Status and Prospects; Other Beyond Standard Model Physics: From SUSY and Leptoquarks to Compositeness and Quantum Foam; The Experimental Race: From the Late Eighties to the Future; The Future of Double Beta Decay; Appendices: Ten Years of Heidelberg OCo Moscow Experiment; The Potential Future OCo GENIUS. Readership: Particle physicists, nuclear physicists and astrophysicists."

**Allgemeine Grundlagen Der Physik** Hans Thirring 1929

*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.

**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 [symbol] decay. 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 [symbol] decay. 2.6. The future of double beta decay

**Jahrbuch der Erfindungen und Fortschritte auf den Gebieten der Physik und Chemie, der Technologie und Mechanik, der Astronomie und Meteorologie...** Heinrich Hirzel 1886

**Handbuch der Physik: Astrophysik II-IV: Sternsysteme** Siegfried Flügge 1959

*Handbuch der Physik* Hans Geiger 1929

**Fortschritte der Physik ...** 1895

**Astrophysik: Sternsysteme** 1959

*Die Fortschritte der Physik* 1895

**Das 4%-Universum** Richard Panek 2011

**Jahrbuch der Erfindungen und Fortschritte auf den Gebieten der Physik, Chemie und chemischen Technologie, der Astronomie und Meteorologie** 1882

**Die Fortschritte der Physik im Jahre ...** 1897

*Das Dunkle Universum* Adalbert W. A. Pauldrach 2015-05-22 Dunkle Energie - sie umgibt uns überall und durchdringt den Kosmos. Aber was bewirkt sie und woraus besteht sie, und wie können wir sie überhaupt erkennen? Dunkle Materie - unsichtbar und doch mit großem Einfluss auf mächtige Materieansammlungen und riesige Galaxienhaufen. Was können wir über sie erfahren? Besteht sie aus uns bislang unbekanntem Teilchen? Dunkle Materie und Dunkle Energie haben ganz offensichtlich einen gemeinsamen Ursprung, und dieser zwingt sie zu einem Wettstreit, dessen Ausgang für die Zukunft des Universums von entscheidender Bedeutung ist. Adalbert Pauldrach führt die Leser auf eine spannende Reise durch die dunklen Komponenten des Kosmos und bis an die Grenzen unseres Wissens. In klarer und verständlicher Sprache erläutert er, was die heutige Physik über Dunkle Energie und Dunkle Materie sagen kann. Dabei diskutiert der Autor modernste Erkenntnisse, kritisiert Theorien und zeichnet ein Bild unseres aktuellen Wissensstandes. Am Ende des Buches wird er die Leser mit einem verblüffenden Erklärungsversuch sogar über die Grenzen heutiger Erkenntnis hinaus blicken lassen. Ein spannendes Buch für Leser aller Altersstufen und Fachrichtungen und für alle, die mehr über unser Universum und dessen Zukunft wissen wollen.

**Astrophysik** 1959

*Die Fakultät für Physik/The Faculty of Physics* Gerald Badurek 2015-10-02 The hallmark of Technical Physics at the Faculty of Physics is the close connection between research and teaching. Despite the high level of specialisation required for remaining internationally competitive in cutting-edge research, physics at TU Vienna nevertheless covers a remarkably broad range of topics that can be roughly divided into three core areas: the physics of matter, physical technology and fundamental interactions. This volume is intended to give the non-specialised reader an impression of the outstanding research and teaching done at the Faculty of Physics.

**CERN Courier** European Organization for Nuclear Research 1959 This journal is devoted to the latest research on physics, publishing articles on everything from elementary particle behavior to black holes and the history of the universe.

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