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*Einstieg In Die
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INGRID RONNIE

Physics for the Life Sciences Springer
 Science & Business Media
 Written by high performance computing
 (HPC) experts, Introduction to High
 Performance Computing for Scientists and
 Engineers provides a solid introduction to
 current mainstream computer
 architecture, dominant parallel
 programming models, and useful
 optimization strategies for scientific HPC.
 From working in a scientific computing
 center, the author

**From the Universe to the Elementary
 Particles** Cambridge University Press
 This book focuses on software
 sustainability, regarded in terms of how

software is or can be developed while
 taking into consideration environmental,
 social, and economic dimensions. The
 sixteen chapters cover various related
 issues ranging from technical aspects like
 energy-efficient programming techniques,
 formal proposals related to energy
 efficiency measurement, patterns to build
 energy-efficient software, the role of
 developers on energy efficient software
 systems and tools for detecting and
 refactoring code smells/energy bugs; to
 human aspects like its impact on software
 sustainability or the adaptation of
 ACM/IEEE guidelines for student and
 professional education and; and an
 economics-driven architectural evaluation
 for sustainability. Also aspects as the
 elements of governance and management
 that organizations should consider when
 implementing, assessing and improving

Green IT or the relationship between
 software sustainability and the Corporate
 Social Responsibility of software
 companies are included. The chapters are
 complemented by usage scenarios and
 experience reports on several domains as
 cloud applications, agile development or e-
 Health, among others. As a whole, the
 chapters provide a complete overview of
 the various issues related to sustainable
 software development. The target
 readership for this book includes CxOs,
 (e.g. Chief Information Officers, Chief
 Executive Officers, Chief Technology
 Officers, etc.) software developers,
 software managers, auditors, business
 owners, and quality professionals. It is also
 intended for students of software
 engineering and information systems, and
 software researchers who want to know
 the state of the art regarding software

sustainability.

Software Sustainability Springer-Verlag
The first overview on fabric sculptor Marion Baruch, from the 1960s to today. This richly illustrated edition presents a broad span of Romanian artist Marion Baruch's (born 1929) oeuvre, spanning her painting, textile art, photography, installations and graphics. It includes focus texts by curators, friends and art historians from the artist's circle.

Legacy Xlibris Corporation

This state-of-the-art research Handbook provides a comprehensive, coherent, current synthesis of the empirical and theoretical research concerning teaching and learning in science and lays down a foundation upon which future research can be built. The contributors, all leading experts in their research areas, represent the international and gender diversity that exists in the science education research community. As a whole, the Handbook of Research on Science Education demonstrates that science education is alive and well and illustrates its vitality. It is an essential resource for the entire science education community, including veteran and emerging researchers, university faculty, graduate students, practitioners in the schools, and science education professionals outside of universities. The National Association for Research in Science Teaching (NARST) endorses the Handbook of Research on Science Education as an important and valuable synthesis of the current knowledge in the field of science education by leading individuals in the field. For more information on NARST, please visit: <http://www.narst.org/>.

The Structure of Physics CRC Press

A revised overview of modern neutrino physics, covering all major areas of interest.

Introduction to High Performance Computing for Scientists and Engineers Springer Nature

In recent years the fields of both particle physics and astrophysics have become increasingly interdependent. High energy particle physics experiments are ever more difficult and expensive to perform in conventional laboratories and it is apparent that there are sources and accelerators in the cosmos which can be used for experiments which would be impossible on the Earth. At the same time, astrophysicists have found that an understanding of particle physics is essential to describe many observed phenomena (such as dark matter, solar neutrinos and cosmic rays) and also to provide any detailed description of the early universe. In this climate of

interdisciplinary research more and more researchers are crossing traditional subject boundaries in order to study what has become known as Particle Astrophysics. This book, conceived as a more specialised follow-up to one of the authors earlier works (Non-accelerator Particle Physics by Klapdor-Kleingrothaus and Staudt) gives a graduate level account of the physics of particle astrophysics. It describes, at an introductory level, the close connection between the microcosm (particles) and the macrocosm (Universe). The approach is wide ranging and succeeds in introducing all of the major theoretical concepts as well as describing the most recent experimental and observational evidence in the field. As such it will be invaluable to anyone approaching the subject from either particle physics or astrophysics.

Particle Detectors IOS Press

"Originally published in Germany. Deutsche Wege zur Erlösung: Formen des Religiösen im Nationalsozialismus. Wilhelm Fink Verlag, München 2013." *Particles, Fields, Quanta* Springer Science & Business Media

In diesem Buch werden die experimentellen Grundlagen von Teilchendetektoren und ihre Anwendung in Experimenten beschrieben. Die Entwicklung von Detektoren ist ein wichtiger Bestandteil der Teilchen-, Astroteilchen- und Kernphysik und gehört daher zum Handwerk des Experimentalphysikers in diesen Gebieten. Dieses umfassende Werk beinhaltet den kompletten Stoff für entsprechende Master-Module in der experimentellen Teilchenphysik, geht aber im Inhalt auch darüber hinaus. Zielgruppe sind Studierende, die sich in die Materie vertiefen möchten, aber auch Lehrende und Wissenschaftler, die das Buch zum Einstieg in das wissenschaftliche Arbeiten an Detektorentwicklungen verwenden können. Zielrichtung des Buches ist, die physikalischen Grundlagen für die Detektoren und ihrer verschiedenen Ausführungen so klar wie möglich und so tiefgehend wie nötig darzustellen. Die Breite des für die Detektorentwicklung nötigen Wissens umfasst viele Bereiche der Physik und Technik, von den Wechselwirkungen der Teilchen mit Materie, der Gas- und Festkörperphysik über Ladungstransport und Signalentstehung bis zur Mikroelektronik. Autoren: Hermann Kolanoski ist Professor i.R. für Physik an der Humboldt-Universität zu Berlin und am Forschungszentrum DESY (Zeuthen). Vorher arbeitete er an den Universitäten Stanford, Bonn und Dortmund. Sein Fachgebiet ist die

experimentelle Teilchen- und Astroteilchenphysik. Er forscht an den Experimenten IceCube am Südpol und ATLAS am CERN. Norbert Wermes ist Physikprofessor an der Universität Bonn mit dem Forschungsgebiet experimentelle Elementarteilchenphysik und Detektorentwicklung. Vorher forschte er an den Forschungszentren DESY und CERN sowie in Stanford und Heidelberg. Mit seiner Gruppe ist er an den Großexperimenten ATLAS (CERN) und Belle II am japanischen Forschungszentrum KEK beteiligt. Inarticulate Science? Springer Science & Business Media

Das vorliegende Buch bietet dem Leser einen Überblick über die Physik der Neutrinos, der leichtesten Fermionen im Standardmodell der Teilchenphysik. Neben den Grundlagen und der theoretischen Beschreibung beleuchten die Autoren aktuelle Forschung und offene Fragestellungen zur Neutrinophysik. Die Autoren besprechen die Rolle dieser Teilchen in Kosmologie und Astrophysik, gehen auf moderne Neutrino-Experimente ein und erklären die aktuellsten Ergebnisse verständlich. Grundlagen zum Verständnis des Buches sind Kenntnisse der klassischen Physik und Grundkenntnisse der Quantenmechanik - Vorkenntnisse in der Kern- und Teilchenphysik schaden nicht, sind aber auch nicht unbedingt nötig. Das Buch richtet sich an Bacheloranden, Master-Studierende, Doktorandinnen und Doktoranden und Postdocs, die im Bereich der theoretischen oder experimentellen Neutrinophysik ihre Abschlussarbeit schreiben und forschen. Aus dem Inhalt: Neutrinos im Standardmodell Neutrinooszillationen Experimente zu Neutrinooszillationen Status von Neutrinooszillationen und offene Fragen Neutrinos in Astrophysik und Kosmologie **The Only Woman in the Room** Beacon Press

National research systems face an increasingly competitive environment for ideas, talent and funds, and governments have shifted funds from institutional core funding to project funding, often on a competitive basis, or reward success in raising third-party funds in performance-based funding schemes. It is in this context that 'research excellence initiatives' (REIs) have emerged. This is an instrument designed to encourage outstanding research by providing large-scale, long-term funding to designated research units. They provide funds for research and research-related measures, such as the improvement or extension of physical infrastructure, the recruitment of

outstanding researchers from abroad and researcher training. This report presents new evidence on how governments steer and fund public research in higher education and public research institutions through REIs. The report can help inform discussions on future government policy directions by providing information on how REIs work and on the functioning and characteristics of institutions that host centres of excellence. The findings show some of the benefits to be gained through REIs and note some pitfalls to be avoided.

Neutrinophysik Pergamon

"Reduce, Reuse, Recycle, and Recover" is the sustainable guideline that has replaced the "Take, Make, Waste" attitude of the industrial age. Based on their background at the ETH Zurich and the Future Cities Laboratory in Singapore, the authors provide both a conceptual and practical look into materials and products which use waste as a renewable resource. This book introduces an inventory of current projects and building elements, ranging from marketed products, among them façade panels made of straw and self-healing concrete, to advanced research and development like newspaper, wood or jeans denim used as isolating fibres. Going beyond the mere recycling aspect of reused materials, it looks into innovative concepts of how materials usually regarded as waste can be processed into new construction elements. The products are organized along the manufacturing processes: densified, reconfigured, transformed, designed and cultivated materials. A product directory presents all materials and projects in this book according to their functional uses in construction: load-bearing, self-supporting, insulating, waterproofing and finishing products.

Visiting Senior Scientist Routledge

This is a book on planets: Solar system planets and dwarf planets. And planets outside our solar system - exoplanets. How did they form? What types of planets are there and what do they have in common? How do they differ? What do we know about their atmospheres - if they have one? What are the conditions for life and on which planets may they be met? And what's the origin of life on Earth and how did it form? You will understand how rare the solar system, the Earth and hence life is. This is also a book on stars. The first and second generation of stars in the Universe. But in particular also on the link between planets and stars - brown dwarfs. Their atmospheric properties and similarities with giant exoplanets. All these fascinating questions will be answered in a non-technical manner. But those of you

who want to know a bit more may look up the relevant mathematical relationships in appendices.

The Study of Elementary Particles by the Photographic Method OCDE

The second edition of Physics for the Life Sciences brings the beauty of physics to life. Taking an algebra-based approach with the selective use of calculus, the second edition provides a concise approach to basic physics concepts using a fresh layout, consistent and student-tested art program, extensive use of conceptual examples, analytical problems, and instructive and engaging case studies.

Promoting Research Excellence

Springer Science & Business Media

This book presents theoretical and empirical work pertaining to personal epistemology in the classroom and consider its broader educational implications.

Animal Mandala Coloring Book CRC Press

This book describes the fundamentals of particle detectors as well as their applications. Detector development is an important part of nuclear, particle and astroparticle physics, and through its applications in radiation imaging, it paves the way for advancements in the biomedical and materials sciences. Knowledge in detector physics is one of the required skills of an experimental physicist in these fields. The breadth of knowledge required for detector development comprises many areas of physics and technology, starting from interactions of particles with matter, gas- and solid-state physics, over charge transport and signal development, to elements of microelectronics. The book's aim is to describe the fundamentals of detectors and their different variants and implementations as clearly as possible and as deeply as needed for a thorough understanding. While this comprehensive opus contains all the materials taught in experimental particle physics lectures or modules addressing detector physics at the Master's level, it also goes well beyond these basic requirements. This is an essential text for students who want to deepen their knowledge in this field. It is also a highly useful guide for lecturers and scientists looking for a starting point for detector development work.

Handbook of Particle Detection and Imaging Birkhäuser

This account of sources of ionizing radiation and methods of radiation protection describes units of radiation protection, measurement techniques, biological effects, environmental radiation and many applications. Each chapter contains problems with solutions.

Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen

Springer Nature

ONE OF WASHINGTON POST'S NOTABLE NONFICTION BOOKS OF THE YEAR

A bracingly honest exploration of why there are still so few women in STEM fields—"beautifully written and full of important insights" (Washington Post). In 2005, when Lawrence Summers, then president of Harvard, asked why so few women, even today, achieve tenured positions in the hard sciences, Eileen Pollack set out to find the answer. A successful fiction writer, Pollack had grown up in the 1960s and '70s dreaming of a career as a theoretical astrophysicist. Denied the chance to take advanced courses in science and math, she nonetheless made her way to Yale. There, despite finding herself far behind the men in her classes, she went on to graduate summa cum laude, with honors, as one of the university's first two women to earn a bachelor of science degree in physics. And yet, isolated, lacking in confidence, starved for encouragement, she abandoned her ambition to become a physicist. Years later, spurred by the suggestion that innate differences in scientific and mathematical aptitude might account for the dearth of tenured female faculty at Summer's institution, Pollack thought back on her own experiences and wondered what, if anything, had changed in the intervening decades. Based on six years interviewing her former teachers and classmates, as well as dozens of other women who had dropped out before completing their degrees in science or found their careers less rewarding than they had hoped, *The Only Woman in the Room* is a bracingly honest, no-holds-barred examination of the social, interpersonal, and institutional barriers confronting women—and minorities—in the STEM fields. This frankly personal and informed book reflects on women's experiences in a way that simple data can't, documenting not only the more blatant bias of another era but all the subtle disincentives women in the sciences still face. *The Only Woman in the Room* shows us the struggles women in the sciences have been hesitant to admit, and provides hope for changing attitudes and behaviors in ways that could bring far more women into fields in which even today they remain seriously underrepresented.

Worlds Beyond Our Own Springer-Verlag

Dieses Buch bietet eine ausführliche Darstellung der Astroteilchenphysik und der kosmischen Strahlung mit den

dazugehörigen Messmethoden in der Forschung. Nach einer historischen Einleitung werden zunächst die Astroteilchen selbst, deren typische Wechselwirkungen und die relevanten Messtechniken beschrieben. Ein großer Teil des Buches befasst sich mit der primären und sekundären kosmischen Strahlung. Die modernen Aspekte der Astroteilchenphysik werden in den Kapiteln über Kosmologie und das frühe Universum dargestellt. Gegenüber früheren Ausgaben werden die Effekte der Dunklen Materie und Dunklen Energie ausführlicher beschrieben. Aktuelle Resultate über Gravitationswellen und extrasolare Planeten runden das Buch ab. Der Text wird durch viele sorgfältig erstellte Diagramme und Abbildungen und durch zahlreiche unterhaltsame Cartoons ergänzt und kommt dabei in weiten Teilen ohne komplizierte Mathematik aus. Das Buch schließt damit eine Lücke zwischen einem fortgeschrittenen populären Niveau

und der Darstellung für Experten. Somit finden sowohl Studierende als auch Leser mit Interesse für moderne Astronomie und Astrophysik einen ansprechenden Zugang in das Forschungsgebiet der Astroteilchenphysik.

Massive Neutrinos Createspace Independent Publishing Platform
In this book, the author leads the reader, step by step and without any advanced mathematics, to a clear understanding of the foundations of modern elementary particle physics and cosmology. He also addresses current and controversial questions on topics such as string theory. The book contains gentle introductions to the theories of special and general relativity, and also classical and quantum field theory. The essential aspects of these concepts are understood with the help of simple calculations; for example, the force of gravity as a consequence of the curvature of the space-time. Also treated are the Big Bang, dark matter and dark energy, as well as the presently known

interactions of elementary particles: electrodynamics, the strong and the weak interactions including the Higgs boson. Finally, the book sketches as yet speculative theories: Grand Unification theories, supersymmetry, string theory and the idea of additional dimensions of space-time. Since no higher mathematical or physics expertise is required, the book is also suitable for college and university students at the beginning of their studies. Hobby astronomers and other science enthusiasts seeking a deeper insight than can be found in popular treatments will also appreciate this unique book.
Astroparticle Physics Oxford University Press
Presents experiment, theory and technology in a unified manner. Contains numerous illustrations, tables and references as well as carefully selected problems for students. Surveys the fascinating historical development of the field.