

The Standard Model of Particle Physics

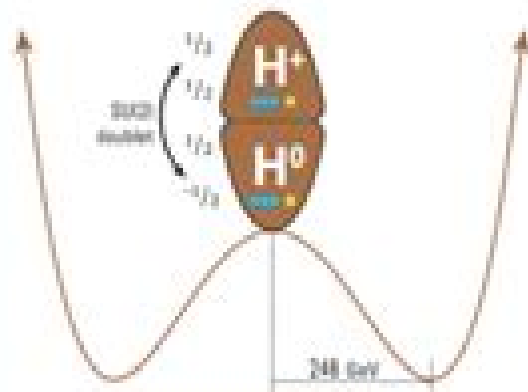
Spin 0 (Higgs Boson)



Spin 1/2 (Fermions)



Spin 1 (Gauge Bosons)



Unbroken Symmetry
Broken Symmetry

Left handed SU(2) doublet

1 st	2 nd	3 rd
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$

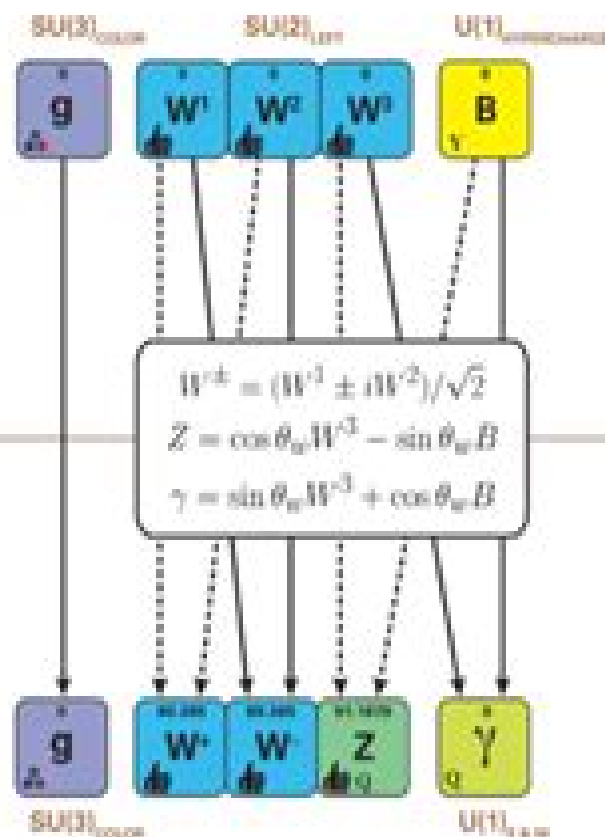
Quarks

1 st	2 nd	3 rd
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$

Left handed SU(2) doublet

1 st	2 nd	3 rd
$-\frac{1}{6}$	$-\frac{1}{6}$	$-\frac{1}{6}$
$-\frac{1}{2}$	$-\frac{1}{2}$	$-\frac{1}{2}$
$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$

Leptons



1 st	2 nd	3 rd
0.0025	1.27%	11.4%
$\frac{1}{6}$	$\frac{1}{6}$	$\frac{1}{6}$
$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$
$\frac{1}{3}$	$\frac{1}{3}$	$\frac{1}{3}$
$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$

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$-\frac{1}{3}$	$-\frac{1}{3}$	$-\frac{1}{3}$

Leptons

Beyond The Standard Model Iii

Hans Volker Klapdor-kleingrothaus



Beyond The Standard Model Iii:

Beyond The Standard Model Iii S Godfrey, Patricia Kalyniak, 1993-06-25 This volume presents a critical review of the standard model and the prospects for discovering new physics It also discusses the recent developments that have taken place in new physics theories beyond the standard model

Beyond The Standard Model Ii - Proceedings Of The International Conference On High Energy Physics Kimball A Milton, Ronald Kantowski, Mark A Samuel, 1991-07-30
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Rene Donaldson, Richard Gustafson, Frank Paige, 1982 *Noncommutative Geometry and Particle Physics* Walter D. van Suijlekom, 2014-07-21 This book provides an introduction to noncommutative geometry and presents a number of its recent applications to particle physics It is intended for graduate students in mathematics theoretical physics who are new to the field of noncommutative geometry as well as for researchers in mathematics theoretical physics with an interest in the physical applications of noncommutative geometry In the first part we introduce the main concepts and techniques by studying finite noncommutative spaces providing a light approach to noncommutative geometry We then proceed with the general framework by defining and analyzing noncommutative spin manifolds and deriving some main results on them such as the local index formula In the second part we show how noncommutative spin manifolds naturally give rise to gauge theories applying this principle to specific examples We subsequently geometrically derive abelian and non abelian Yang Mills gauge theories and eventually the full Standard Model of particle physics and conclude by explaining how noncommutative geometry might indicate how to proceed beyond the Standard Model

Advances in Noncommutative Geometry Ali Chamseddine, Caterina Consani, Nigel Higson, Masoud Khalkhali, Henri Moscovici, Guoliang Yu, 2020-01-13 This authoritative volume in honor of Alain Connes the foremost architect of Noncommutative Geometry presents the state of the art in the subject The book features an amalgam of invited survey and research papers that will no doubt be accessed read

and referred to for several decades to come The pertinence and potency of new concepts and methods are concretely illustrated in each contribution Much of the content is a direct outgrowth of the Noncommutative Geometry conference held March 23 April 7 2017 in Shanghai China The conference covered the latest research and future areas of potential exploration surrounding topology and physics number theory as well as index theory and its ramifications in geometry

Neutral Currents Twenty Years Later - Proceedings Of The International Conference U Nguyen-khac, Anne Marie Lutz, 1994-05-18 This conference celebrated the discovery of neutral currents in neutrino interactions twenty years ago History will mark the 1973 decisive experiments as the turning point of a new era in theoretical and experimental physics The participants in the discovery retrace its circumstances and genesis and all the present aspects of its heritage are reviewed particle physics the standard model has to date not been invalidated by the most precise experiments at LEP atomic physics and astrophysics Particle Physics: Ideas and Recent Developments Jean-Jacques Aubert, Raymond

Gastmans, Jean-Marc Gérard, 2012-12-06 For more than 25 years the Standard Model of particle physics has withstood the confrontation with experimental results of increasing precision but this does not imply that the Standard Model can answer all questions about the ultimate constituents of nature This book presents a critical examination of the latest experimental results and confronts them with the predictions of the Standard Model Besides discussions of accelerator results from LEP HERA and the TEVATRON attention is paid to the unresolved problems of neutrino oscillations CP violation dark matter and cosmology New theoretical ideas are also analyzed in order to explore possible extensions of the standard model Realistic plans for future accelerators are presented and their physics potential is discussed paving the way for the next generation of particle physics experiments **Quantum Mathematical Physics** Felix Finster, Johannes Kleiner, Christian Röken, Jürgen

Tolksdorf, 2016-02-24 Quantum physics has been highly successful for more than 90 years Nevertheless a rigorous construction of interacting quantum field theory is still missing Moreover it is still unclear how to combine quantum physics and general relativity in a unified physical theory Attacking these challenging problems of contemporary physics requires highly advanced mathematical methods as well as radically new physical concepts This book presents different physical ideas and mathematical approaches in this direction It contains a carefully selected cross section of lectures which took place in autumn 2014 at the sixth conference Quantum Mathematical Physics A Bridge between Mathematics and Physics in Regensburg Germany In the tradition of the other proceedings covering this series of conferences a special feature of this book is the exposition of a wide variety of approaches with the intention to facilitate a comparison The book is mainly addressed to mathematicians and physicists who are interested in fundamental questions of mathematical physics It allows the reader to obtain a broad and up to date overview of a fascinating active research area *Fundamental Interactions - Proceedings Of The 21st Lake Louise Winter Institute* Alan Astbury, Faqir C Khanna, Roger W Moore, 2006-12-29 This proceedings volume contains the latest developments in particle physics in collider experiments The contributions cover new

results such as the production of quark gluon plasma in the heavy ion collider the new techniques for precision measurement at low energies and the status of neutrino physics at various laboratories including the new facilities that are at the planning stage

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Future Of Our Physics Including New Frontiers, The: Proceedings Of The 53rd Course Of The International School Of Subnuclear Physics Antonino Zichichi, 2017-02-13 The main focus of this year's Proceedings of the 53rd Course of the International School of Subnuclear Physics is the future of physics including the new frontiers in other fields

Techniques and Concepts of High-Energy Physics VI Thomas Ferbel, 2012-12-06 The sixth Advanced Study Institute ASI on Techniques and Concepts of High Energy Physics was held at the Club St Croix in St Croix U S Virgin Islands The ASI brought together a total of 70 participants from 21 different countries Despite logistical problems caused by hurricane Hugo it was a very successful meeting Hugo's destruction did little to dampen the dedication of the inspiring lecturers and the exceptional enthusiasm of the student body nevertheless the immense damage caused to the beautiful island was very saddening indeed The primary support for the meeting was again provided by the Scientific Affairs Division of NATO The ASI was cosponsored by the U S Department of Energy by Fermilab by the National Science Foundation and by the University of Rochester A special contribution from the Oliver S and Jennie R Donaldson Charitable Trust provided an important degree of flexibility as well as support for worthy students from developing countries As in the case of the previous ASIs the scientific program was designed for advanced graduate students and recent PhD recipients in experimental particle physics The present volume of lectures should complement the material published in the first five ASIs and prove to be of value to a wider audience of physicists

Neutrino Physics Kai Zuber, 2011-08-03 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 p

Collected Papers of Carl Wieman Carl Edwin Wieman, 2008 Carl Wieman's contributions have had a major impact on defining the field of atomic physics as it exists today His ground breaking research has included precision laser spectroscopy using lasers and atoms to provide important table top tests of theories of elementary particle physics the development of techniques to cool and trap atoms using laser light particularly in inventing much simpler less expensive ways to do this the understanding of how atoms interact with one another and light at ultracold temperatures and the creation of the first Bose Einstein condensation in a dilute gas and the study of the properties of this condensate In recent years he has also turned his attention to physics education and new methods and research in that area This

indispensable volume presents his collected papers with annotations from the author tracing his fascinating research path and providing valuable insight about the significance of the works

Research Directions For The Decade (Snowmass 1990) - Proceedings Of The 1990 Summer Study On High Energy Physics Edmond L Berger, 1992-09-16 With the advent of the Superconducting Super Collider and other new technologies coupled with the development of particle astrophysics and other non accelerator based physics research in high energy particle physics in the nineties promises to break into new and exciting frontiers To chart the directions and opportunities for this new decade the 1990 Summer Study on High Energy Physics was organized in Snowmass Colorado Like previous Snowmass Summer Studies it plays a key role in shaping research directions and in drawing the particle physics community together This book of the proceedings examines the full spectrum of important scientific issues and opportunities in high energy particle physics in the decade of the 1990 s including research at existing and anticipated hadron hadron e e and ep colliders research at fixed target facilities the scientific potential of possible new facilities such as B factories particle astrophysics and non accelerator based physics and accelerator and detector initiatives It also discusses the physics and technical aspects of the initial Superconducting Super Collider experimental program This volume therefore offers a captivating glimpse into the future of high energy physics and makes essential reading for all physicists interested in assessing the exciting new research opportunities the future technologies would bring

Puzzles On The Electroweak Scale - Proceedings Of The 14th International Warsaw Meeting On Elementary Particle Physics Zygmunt Ajduk, Stefan Pokorski, Andrzej Kajetan Wróblewski, 1992-04-30 The proceedings contains reviews and short communications on the following topics status of the standard model rare decays and CP violation heavy quark physics neutrino physics Higgs bosons and electroweak breaking nonperturbative effects in electroweak interactions physics beyond the standard models quantum chromodynamics and strong interactions

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

Selected Papers from 43rd International Conference of Theoretical Physics Janusz Gluza, Jan Śladkowski, Bartosz Dziewit, Ilona Bednarek, 2020-03-27 Understanding the origins of the Universe and how it works and evolves is the present mission of a large community of physicists It calls for a large scale vision involving general relativity astrophysics and cosmology Theoretical physics is presently at an important moment in its history As predicted by Einstein gravitational waves have been experimentally proven to exist With the discovery of the Higgs boson the set of interactions and elementary particles that is called the standard model SM is complete Yet the Higgs boson itself and how it breaks the electroweak symmetry remains a fascinating subject requiring further studies and verification Furthermore several experimental facts are not accounted for by the SM i the baryon asymmetry of the Universe ii the nature and origin of dark matter and iii the origin of neutrino masses these have no unique if any explanation in the SM and yet will require answers from particle physics We need to explore further both SM and its extensions This is a subject of papers included in this book which gives representation to the topics discussed during the Matter to the Deepest conference in 2019 in Poland <http://indico.if.us.edu.pl/event/5>

High Energy Physics, 1981 [Guide to JTPA Performance Standards for Program Years 1998 and 1999](#), 1999

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