

STANDARD MODEL OF ELEMENTARY PARTICLES

QUARKS

UP

mass $2,3 \text{ MeV}/c^2$
charge $\frac{2}{3}$
spin $\frac{1}{2}$



CHARM

$1,275 \text{ GeV}/c^2$
 $\frac{2}{3}$
 $\frac{1}{2}$



TOP

$173,07 \text{ GeV}/c^2$
 $\frac{2}{3}$
 $\frac{1}{2}$



DOWN

$4,8 \text{ MeV}/c^2$
 $-\frac{1}{3}$
 $\frac{1}{2}$



STRANGE

$95 \text{ MeV}/c^2$
 $-\frac{1}{3}$
 $\frac{1}{2}$



BOTTOM

$4,18 \text{ GeV}/c^2$
 $-\frac{1}{3}$
 $\frac{1}{2}$



GLUON

0
0
1



HIGGS BOSON

$126 \text{ GeV}/c^2$
0
0



PHOTON

0
0
1



GAUGE BOSONS

Z BOSON

$91,2 \text{ GeV}/c^2$
0
1



W BOSON

$80,4 \text{ GeV}/c^2$
 ± 1
1



LEPTONS

ELECTRON

$0,511 \text{ MeV}/c^2$
-1
 $\frac{1}{2}$



MUON

$105,7 \text{ MeV}/c^2$
-1
 $\frac{1}{2}$



TAU

$1,777 \text{ GeV}/c^2$
-1
 $\frac{1}{2}$



ELECTRON NEUTRINO

$<2,2 \text{ eV}/c^2$
0
 $\frac{1}{2}$



MUON NEUTRINO

$<0,17 \text{ MeV}/c^2$
0
 $\frac{1}{2}$



TAU NEUTRINO

$<15,5 \text{ MeV}/c^2$
0
 $\frac{1}{2}$



Structural Elements In Particle Physics

Steven P. Starkovich



Structural Elements In Particle Physics:

Structural Elements in Particle Physics and Statistical Mechanics J. Hoernerkamp, K. Pohlmeier, H. Romer, 2014-01-15

Structural Elements in Particle Physics and Statistical Mechanics J. Hoernerkamp, K. Pohlmeier, H. Romer, 2011-11-12 The NATO ADVANCED SUMMER INSTITUTE ON THEORETICAL PHYSICS 1981 st was held in Freiburg Germany from August 31 until September 11th 1981 It was the twelfth in a series of Summer Institutes organized by German Universities Its main objective was a thorough comparison of structures and methods of two different branches of Theoretical Physics name ly Elementary Particle Physics and Statistical Mechanics and the idea was to exhibit the structural similarities to trace them until their origins to compare solution and approximation schemes and to report on those new results and methods in either of the two branches which are indicative of an intimate connection between them Thus stimulation of a deeper understanding and development of new Methods could be hoped for in both fields The contributions to the Summer Institute lectures and seminars are contained in this volume One group of them gives concise up to date information on basic topics in Statistical Mechanics and Phase Transitions Dynamical Systems Solvable Lattice Models and Lattice Gauge Theories A second group is devoted to special topics which illustrate the interrelationship between Statistical Mechanics and Elementary Particle Physics like topological quantum numbers on a lattice model studies on the confinement problem etc Supplementary information on experimental implications and on neighbouring fields is provided in a third group

Nuclear Science Abstracts ,1976

The Ideas of Particle Physics James E. Dodd, Ben Gripaos, 2020-09-24 The fourth edition of this popular book is a comprehensive introduction to particle physics including the latest ideas and discoveries

Perspectives of Complex Analysis, Differential Geometry, and Mathematical Physics Stancho Dimiev, Kouei Sekigawa, 2001 This workshop brought together specialists in complex analysis differential geometry mathematical physics and applications for stimulating cross disciplinary discussions The lectures presented ranged over various current topics in those fields The proceedings will be of value to graduate students and researchers in complex analysis differential geometry and theoretical physics and also related fields

Philosophy of Particle Physics Porter Williams, 2023-08-24 This Element offers an introduction to selected philosophical issues that arise in contemporary particle physics aimed at philosophers who have limited prior exposure to quantum field theory On the one hand it critically surveys philosophical work on the representation of particles in quantum field theory the formal machinery and conceptual implications of renormalization and renormalization group methods and ontological and methodological questions raised by the use of effective field theory techniques in particle physics On the other it identifies topics in particle physics that have not yet received philosophical attention and sketches avenues for philosophical analysis of those topics The primary aim of the Element is to provide philosophers of physics with an entry point into the literature on the philosophy of particle physics and identify interesting directions for future research for students and researchers alike

The Structures of Mathematical

Physics Steven P. Starkovich, 2021-07-21 This textbook serves as an introduction to groups rings fields vector and tensor spaces algebras topological spaces differentiable manifolds and Lie groups mathematical structures which are foundational to modern theoretical physics It is aimed primarily at undergraduate students in physics and mathematics with no previous background in these topics Applications to physics such as the metric tensor of special relativity the symplectic structures associated with Hamilton's equations and the Generalized Stokes's Theorem appear at appropriate places in the text Worked examples end of chapter problems many with hints and some with answers and guides to further reading make this an excellent book for self study Upon completing this book the reader will be well prepared to delve more deeply into advanced texts and specialized monographs in theoretical physics or mathematics *Perspectives Of Complex Analysis, Differential Geometry And Mathematical Physics - Proceedings Of The 5th International Workshop On Complex Structures And Vector Fields* Stancho Dimiev, Kouei Sekigawa, 2001-08-02 This workshop brought together specialists in complex analysis differential geometry mathematical physics and applications for stimulating cross disciplinary discussions The lectures presented ranged over various current topics in those fields The proceedings will be of value to graduate students and researchers in complex analysis differential geometry and theoretical physics and also related fields **Femtophysics** M. G. Bowler, 2012-12-02 Provides an account of what is now known about physics at scales of 10^{13} to 10^{16} cm The existence of spin half quarks interacting through colour fields is established fact as is the structure unifying electromagnetic and weak interaction In Femtophysics the author explains the evidence and communicates the essential physics underlying these recent and remarkable developments The approach throughout is to obtain results by applying trivial algebra to the content of simple and clear physical pictures Thus abstract and difficult concepts can be mastered painlessly while maintaining a firm grip on the essentials The diligent student therefore should acquire a comprehensive understanding of the principles underlying present day particle physics *Advances in Computational Dynamics of Particles, Materials and Structures* Jason Har, Kumar Tamma, 2012-07-25 Computational methods for the modeling and simulation of the dynamic response and behavior of particles materials and structural systems have had a profound influence on science engineering and technology Complex science and engineering applications dealing with complicated structural geometries and materials that would be very difficult to treat using analytical methods have been successfully simulated using computational tools With the incorporation of quantum molecular and biological mechanics into new models these methods are poised to play an even bigger role in the future *Advances in Computational Dynamics of Particles Materials and Structures* not only presents emerging trends and cutting edge state of the art tools in a contemporary setting but also provides a unique blend of classical and new and innovative theoretical and computational aspects covering both particle dynamics and flexible continuum structural dynamics applications It provides a unified viewpoint and encompasses the classical Newtonian Lagrangian and Hamiltonian mechanics frameworks as well as new and alternative contemporary approaches and their

equivalences in start italics vector and scalar formalisms end italics to address the various problems in engineering sciences and physics Highlights and key features Provides practical applications from a unified perspective to both particle and continuum mechanics of flexible structures and materials Presents new and traditional developments as well as alternate perspectives for space and time discretization Describes a unified viewpoint under the umbrella of Algorithms by Design for the class of linear multi step methods Includes fundamentals underlying the theoretical aspects and numerical developments illustrative applications and practice exercises The completeness and breadth and depth of coverage makes Advances in Computational Dynamics of Particles Materials and Structures a valuable textbook and reference for graduate students researchers and engineers scientists working in the field of computational mechanics and in the general areas of computational sciences and engineering

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