Standard Model of

FUNDAMENTAL PARTICLES AND INTERACTIONS

The Standard Model summarizes the current knowledge in Particle Physics. It is the quantum theory that includes the theory of strong interactions (quantum chromodynamics or QCD) and the unified theory of weak and electromagnetic interactions (electroweak). Gravity is included on this chart because it is one of the fundamental interactions even though not part of the "Standard Model."

FERMIONS

matter constituents
spin = 1/2, 3/2, 5/2, ...

Leptons spin = 1/2

Flavor	Mass GeV/c²	Electric charge
ν_e electron neutrino	<1×10⁻⁸	0
e^- electron	0.000511	−1
ν_μ muon neutrino	<0.0002	0
μ^- muon	0.106	−1
ν_τ tau neutrino	<0.02	0
τ^- tau	1.7771	−1

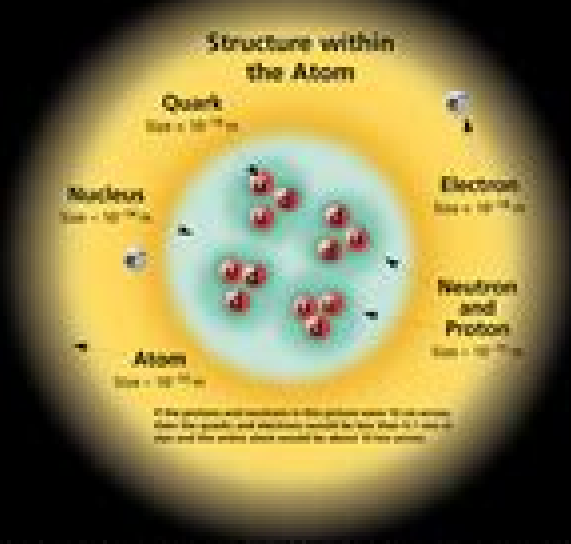
Quarks spin = 1/2

Flavor	Approx. Mass GeV/c²	Electric charge
u up	0.003	2/3
d down	0.006	−1/3
c charm	1.3	2/3
s strange	0.1	−1/3
t top	175	2/3
b bottom	4.3	−1/3

Spin is the intrinsic angular momentum of particles. Spin is given in units of ħ, which is the quantum unit of angular momentum, where ħ = h/2π = 6.58×10⁻²⁵ GeV·s = 1.05×10⁻³⁴ J·s.

Electric charges are given in units of the proton's charge. +2 units the electric charge of the proton = 1.60×10⁻¹⁹ coulombs.

The **energy** unit of particle physics is the electronvolt (eV), the energy gained by one electron in crossing a potential difference of one volt. **Masses** are given in GeV/c² (remember $E = mc^2$), where 1 GeV = 10⁹ eV = 1.60×10⁻¹⁰ joule. The mass of the proton = 0.938 GeV/c² = 1.67×10⁻²⁷ kg.



BOSONS

force carriers
spin = 0, 1, 2, ...

Unified Electroweak spin = 1

Name	Mass GeV/c²	Electric charge
γ photon	0	0
W^-	80.4	−1
W^+	80.4	+1
Z^0	91.187	0

Strong (color) spin = 1

Name	Mass GeV/c²	Electric charge
g gluon	0	0

Color Charge
Each quark carries one of three types of "strong charge," also called "color charge." These charges have nothing to do with the colors of visible light. There are eight possible types of color charge for gluons. Just as electrically-charged particles interact by exchanging photons, or strong interactions color-charged particles interact by exchanging gluons. Leptons, photons, and W and Z bosons have no strong interactions and hence no color charge.

Quarks Confined in Mesons and Baryons
One cannot isolate quarks and gluons; they are confined in color-neutral particles called **hadrons**. This confinement (binding) results from multiple exchanges of gluons among the color-charged constituents. As color-charged particles (quarks and gluons) move apart, the energy in the color force field between them increases. This energy eventually is converted into additional quark-antiquark pairs (see figure below). The quarks and antiquarks then combine into hadrons; these are the particles seen to emerge. Two types of hadrons have been observed in nature: **mesons** (qq) and **baryons** (qqq).

Residual Strong Interaction
The strong binding of color-neutral protons and neutrons to form nuclei is due to residual strong interactions between their color-charged constituents. It is similar to the residual electrical interaction that binds electrically neutral atoms to form molecules. It can also be viewed as the exchange of mesons between the hadrons.

PROPERTIES OF THE INTERACTIONS

Property \ Interaction	Gravitational	Electromagnetic (Unified)	Strong: Fundamental	Strong: Residual
Acts on:	Mass – Energy	Flavor	Electric Charge	Color Charge	See residual strong interaction note
Particles experiencing:	All	Quarks, Leptons	Electrically charged	Quarks, Gluons	Hadrons
Particles mediating:	Gravitons (not yet observed)	W^+ W^- Z^0	γ	Gluons	Mesons
Strength relative to electromagnetic for two quarks at 3×10^{-17} m	10^{-41}	0.8	1	25	Not applicable to quarks
Strength relative to electromagnetic for two quarks at 10^{-16} m	10^{-41}	10^{-4}	1	60 Not applicable to hadrons	
Strength relative to electromagnetic for two protons in nucleus	10^{-36}	10^{-7}	1		20

Baryons qqq and Antibaryons $\bar{q}\bar{q}\bar{q}$

Baryons are fermionic hadrons. There are about 120 types of baryons.

Symbol	Name	Quark content	Electric charge	Mass GeV/c²	Spin
p	proton	uud	1	0.938	1/2
$\bar{p}$	anti-proton	$\bar{u}\bar{u}\bar{d}$	−1	0.938	1/2
n	neutron	udd	0	0.940	1/2
Λ	lambda	uds	0	1.116	1/2
Ω^-	omega	sss	−1	1.672	3/2

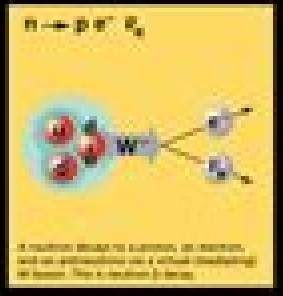
Mesons $q\bar{q}$

Mesons are bosonic hadrons. There are about 140 types of mesons.

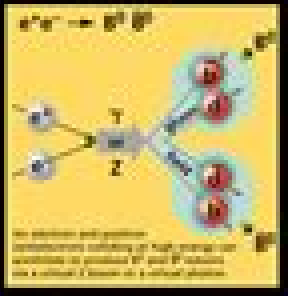
Symbol	Name	Quark content	Electric charge	Mass GeV/c²	Spin
π^+	pion	$u\bar{d}$	+1	0.140	0
K^-	kaon	$s\bar{u}$	−1	0.494	0
ρ^0	rho	$u\bar{u}$, $d\bar{d}$	0	0.770	1
B^0	B-zero	$d\bar{b}$	0	5.279	0
η_c	eta-c	$c\bar{c}$	0	2.980	0

Matter and Antimatter
For every particle type there is a corresponding antiparticle type, denoted by a bar over the particle symbol (unless it is +) charge is reversed. Particle and antiparticle have identical mass and spin but opposite charges. Some electrically neutral bosons (e.g., Z^0, γ, and g, η_c = $c\bar{c}$, but not K^0 = $d\bar{s}$) are their own antiparticles.

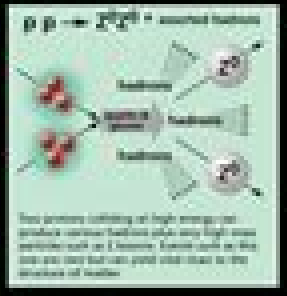
Figures
These diagrams are an artist's conception of physical processes. They are not exact and have no meaningful scale. Green shaded areas represent the cloud of gluons or the gluon field, and red lines the quark paths.



A neutron decays to a proton, an electron, and an antineutrino via a virtual (mediating) W boson. Then a neutron (u dd) decays.



An electron and positron (antielectron) colliding at high energy can annihilate to produce g^1 and g^2 gluons via a virtual Z boson or a virtual photon.



Two protons colliding at high energy can produce various hadrons plus very high energy particles such as Z bosons. Events such as this one are rare but can yield clues to the structure of matter.

The Particle Adventure
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Particles And Fields 2

W. N. Cottingham,D. A. Greenwood

Particles And Fields 2:

Particles and Fields 2 Anton Z. Capri,2013-11-11 Particle physics seems to be entering a new period of consoli dation In 1977 when the first summer institute on particles and fields was held at the Banff Center the standard model of the electro weak interaction was a promising model more or less con firmed today it seems quite well confirmed QCD was considered as probably the correct theory of strong interactions today most theo rists take it for granted What seems to be lacking are computa tional tools and strenuous experimental testing the major ideas seem to exist Thus this is a particularly auspicious time for a review of the status of theoretical and experimental particle physics and field theory The lectures collected in this volume were presented from August 16 to August 27 1981 at the Banff Center in Banff Canada The unifying theme was gauge fields and the topics covered dealt with electro weak interactions Q C D sub quarks and unified theories The format of the Institute was as follows thirteen lecture series of two to four hours each given by S Brodsky D Bryman M Chen S Coleman M Creutz H Harari J Iliopoulos C H Llewellyn Smith P Lepage D Perkins and L Susskind In addition there were nine seminars one hour each given by G Bodwin G Bunce M **Operational Quantum Theory II** Heinrich Saller,2006-09-24 Operational Quantum Theory II is a distinguished work on quantum theory at an advanced algebraic level The classically oriented hierarchy with objects such as particles as the primary focus and interactions of the objects as the secondary focus is reversed with the operational interactions as basic quantum structures Quantum theory specifically relativistic quantum field theory is developed the theory of Lie group and Lie algebra operations acting on both finite and infinite dimensional vector spaces This book deals with the operational concepts of relativistic space time the Lorentz and Poincar group operations and their unitary representations particularly the elementary articles Also discussed are eigenvalues and invariants for non compact operations in general as well as the harmonic analysis of noncompact nonabelian Lie groups and their homogeneous spaces In addition to the operational formulation of the standard model of particle interactions an attempt is made to understand the particle spectrum with the masses and coupling constants as the invariants and normalizations of a tangent representation structure of a an homogeneous space time model Operational Quantum Theory II aims to understand more deeply on an operational basis what one is working with in relativistic quantum field theory but also suggests new solutions to previously unsolved problems **Advanced Particle Physics Two-Volume Set** Oleg Boyarkin,2011-02-16 Providing a complete foundation to comprehend the physics of the microworld Advanced Particle Physics Two Volume Set develops the models theoretical framework and mathematical tools to understand current experiments and make predictions for future experiments The set brings together a vast array of topics in modern particle physics and distill **Energy Research Abstracts** ,1990 **A Treatise on the Analytical Dynamics of Particles and Rigid Bodies** Edmund Taylor Whittaker,1917 *The Physics of Neutrino Interactions* M. Sajjad Athar,S. K. Singh,2020-12-03 The study of neutrinos and their interaction with matter has made many important contributions to our

present knowledge of physics This advanced text introduces neutrino physics and presents a theoretical framework for describing relativistic particles It gives a pedagogical description of the neutrino its properties the standard model of electroweak interactions and neutrino scattering from leptons and nucleons Focusing on the role of nuclear effects the discussion extends to various processes of quasielastic inelastic and deep inelastic scattering from nucleons and nuclei Neutrino sources detection and oscillation along with the role of neutrinos in astrophysics and motivation for the need of physics beyond the standard model are discussed in detail This topical book will stimulate new ideas and avenues for research and will form a valuable resource for advanced students and researchers working in the field of neutrino physics

Phenomenology of Particle Physics André Rubbia,2022-05-12 Addresses the theoretical and experimental phenomenology of particle physics for two semester Masters and graduate courses **Nuclear Science Abstracts** ,1973 **Scientific and Technical Aerospace Reports** ,1965 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database **The Material Point Method** Vinh Phu Nguyen,Alban de Vaucorbeil,Stephane Bordas,2023-04-11 This book provides an introduction to the fundamental theory practical implementation and core and emerging applications of the material point method MPM and its variants The MPM combines the advantages of both finite element analysis FEM and meshless meshfree methods MMs by representing the material by a set of particles overlaid on a background mesh that serves as a computational scratchpad The book shows how MPM allows a robust accurate and efficient simulation of a wide variety of material behaviors without requiring overly complex implementations MPM and its variants have been shown to be successful in simulating a large number of high deformation and complicated engineering problems such as densification of foam sea ice dynamics landslides and energetic device explosions to name a few and have recently found applications in the movie industry It is hoped that this comprehensive exposition on MPM variants and their applications will not only provide an opportunity to re examine previous contributions but also to re organize them in a coherent fashion and in anticipation of new advances Sample algorithms for the solutions of benchmark problems are provided online so that researchers and graduate students can modify these algorithms and develop their own solution algorithms for specific problems The goal of this book is to provide students and researchers with a theoretical and practical knowledge of the material point method to analyze engineering problems and it may help initiate and promote further in depth studies on the subjects discussed

Records & Briefs New York State Appellate Division , **Symmetries in Science II** Bruno Gruber,Romuald Lenczewski,2013-11-11 The Symposium Symmetries in Science II was held at Southern Illinois University Carbondale during the period March 24 26 1986 following the Einstein Centennial Symposium Symmetries in Science after a lapse of seven years As it was the case for the original Symposium the 1986 Symposium was truly interdisciplinary and truly international I wish to thank all participants who made the effort to come to Carbondale Illinois from allover the world At this point I also

wish to express my sincere thanks to Dr Albert Somit President of Southern Illinois University at Carbondale and Dr John C Guyon Vice President for Academic Affairs and Research at Southern Illinois University at Carbondale Their generous support and encouragement was instrumental in getting the Symposium organized In addition I wish to thank Associate Vice President Charles B Klasek Dr Russell R Dutcher Dean of the College of Science John H Yopp Associate Dean College of Science Dr Subir K Bose Chairman of the Physics Department Dr James Tyrrell Chairman of the Chemistry Department Dr Jared H Dorn Director of International Programs and Services Dr Rhonda Jo Vinson Director of International and Economic Development Dr Tommy T Dunagan Vice President of Sigma Xi at Southern Illinois University Dr George Garoian Professor of Zoology Dr Ann Phillippi Assistant Professor of Zoology and Dr Linda R Gannon Coordinator of Women s Studies for their support and assistance *Thermal Field Theories and Their Applications* ,1996 Thermal field theory is the study of quantum field theory at non zero temperature This proceedings introduces both retrospect and prospect for various aspects of thermal field theory as well as their extensive applications to condensed matter physics high energy physics cosmology nuclear physics etc Also included are speeches memorizing the recently lamented Professor Hiroomi Umezawa a leading physicist in thermal field theory by his former students and colleagues Publisher s website *De Novo Quantum Cosmology with Artificial Intelligence* Ariel Fernández,2025-07-22 Experiments attempting to recreate the Big Bang and measurements in deep space point to the tantalizing possibility that our universe may be the relic of something simple powerful and highly symmetric The evidence suggests an entity where matter and energy cannot be told apart and the four fundamental forces are unified into one Empowered by artificial intelligence De Novo Quantum Cosmology with Artificial Intelligence seeks to unravel the mystery as it searches for an encompassing physical picture where it all falls into place at the aftermath of creation from a quantum void From the outset AI reckons that the problem cannot be tackled without proper contextualization that is without dealing with other intimately related problems in particle cosmology including the nature of dark matter and dark energy the hierarchy problem of particle masses the incommensurably weak coupling strength of gravity the universe topology the cosmological constant problem and the vacuum catastrophe Accordingly the book addresses the matter in its full conceptual richness This monograph addresses a broad readership that includes a nonhuman audience involving AI systems A background in college level physics and computer science would be essential Although informal in the approach the material is presented with scientific rigor so that readers gain hands on experience on the subject The book is geared at graduate students as well as professional physicists mathematicians cosmologists and big data scientists that seek to venture into some of the core problems in particle cosmology empowered by AI Notably the book is also geared at nonhuman audiences since AI systems may incorporate its fundamental operational tenets and take the matter to unfathomable heights Key Features Introduces an artificial intelligence system to tackle core problems in particle cosmology Describes a grand unification scheme to explain the common origin of the fundamental forces Identifies the origin

of matter as a phase transition from the quantum vacuum **19th Natural Philosophy Alliance Proceedings** Greg Volk,2012-07-14 The Natural Philosophy Alliance NPA sponsors regular international conferences for presenting high quality papers discussing aspects of philosophy in the sciences Many papers offer challenges to accepted orthodoxy in the sciences especially in physics Everything from the micro physics of quantum mechanics to the macro physics of cosmology is entertained Though the main interest of the NPA is in challenging orthodoxy in the sciences it will also feature papers defending such orthodoxy Our ultimate propose is to enable participants to articulate their own understanding of the truth All papers are reviewed by society officers and sometimes by other members before presentation in conferences and they are edit sometimes very significantly prior to publication in the Proceedings of the NPA **An Introduction to the Standard Model of Particle Physics** W. N. Cottingham,D. A. Greenwood,2023-07-27 New edition introductory graduate textbook on the Standard Model of particle physics *International Advances in Writing Research* Charles Bazerman,Chris Dean,2012-09-09 The authors report research that considers writing in all levels of schooling in science in the public sphere and in the workplace as well as the relationship among these various places of writing The authors also consider the cultures of writing among them national cultures gender cultures schooling cultures scientific cultures and cultures of the workplace **Chemical Abstracts** ,1925 **The Weak Interaction in Nuclear, Particle and Astrophysics** K. Grotz,2018-01-10 The Weak Interaction in Nuclear Particle and Astrophysics presents concepts of the weak interaction and its integration into modern gauge theories of particle physics such as grand unification and supersymmetry The book explores the close connections between micro nuclear and particle physics and macro physics astrophysics and cosmology induced by the weak interaction Special attention is given to neutrinos which have a key role in the understanding of elementary particle theories In addition to the theoretical aspects the book covers the important research topics of solar and galactic neutrinos and double beta decay Assuming knowledge of elementary electrodynamics and quantum mechanics this resource provides an insight into the diversity of the problem areas associated with the weak interaction and will encourage intensive study of particular themes **Engineering** ,1907

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