

Standard Model of FUNDAMENTAL PARTICLES AND INTERACTIONS

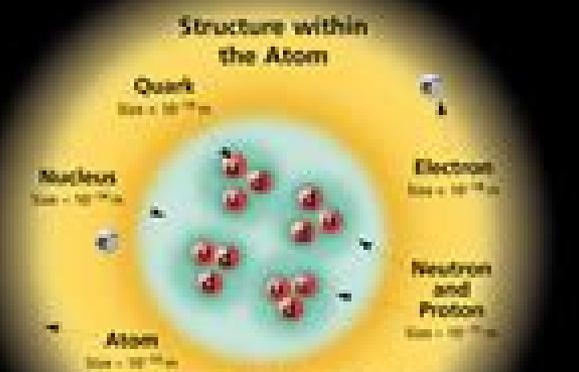
The Standard Model summarizes the current knowledge in Particle Physics. It is the quantum theory that includes the theory of strong interactions (Quantum Chromodynamics or QCD) and the unified theory of weak and electromagnetic interactions (Electroweak). Gravity is included in the chart because it 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/c ²	Electric charge
ν_e electron neutrino	$< 1 \cdot 10^{-6}$	0
e^- electron	0.000511	-1
ν_μ muon neutrino	< 0.0003	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/c ²	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



If the system is electrically neutral, the total charge is 0. The mass of the quarks and leptons is much smaller than that of a proton. Note that the mass of the neutrinos is still unknown.

BOSONS

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

Unified Electroweak spin = 1		
Name	Mass GeV/c ²	Electric charge
γ photon	0	0
W^\pm	80.4	-1
W^\pm	80.4	+1
Z^0	91.187	0

Strong (color) spin = 1		
Name	Mass GeV/c ²	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 quarks, and six possible types of color charge for gluons, and as a result only charged particles interact by exchanging gluons. In 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. The confinement (binding) results from multiple exchanges of gluons among the color-charged constituents. As color-charged particles (quarks and gluons) move apart, the total size of the color force field between them increases. This strongly repulsive interaction effectively binds quarks together into particles (see figure below). The quarks are antiquarks that combine into baryons; these are the particles that we observe. The first form of hadrons had been observed in 1947: mesons ($q\bar{q}$) and baryons (qqq).

Residual Strong Interaction
The strong binding of color-charged particles and hadrons to form nuclei is due to residual strong interactions between color-neutral particles. It is similar to the residual intermolecular forces that hold neutral molecules together. Residual strong interactions are also called the exchange of mesons between the nucleons.

Spin is the intrinsic angular momentum of particles. Spin is given in units of \hbar , which is the quantum unit of angular momentum, where \hbar 's value is $6.626 \cdot 10^{-34}$ J·s or $1.05457 \cdot 10^{-27}$ erg·s.

Electric charges are quant in units of the proton's charge in 3 units the electron's charge of the proton is $1.602 \cdot 10^{-19}$ coulombs.

The energy part of particle physics is the relativistic part, the energy gained by one unit mass in traveling a potential difference of one volt. Masses are given in 10^{27} kg (conversion: $1 \text{ kg} = 10^3 \text{ g}$, where $1 \text{ g} = 10^3 \text{ mg} = 1.66 \cdot 10^{-27}$ kg). The mass of the proton is $1.6726 \cdot 10^{-27}$ kg.

PROPERTIES OF THE INTERACTIONS

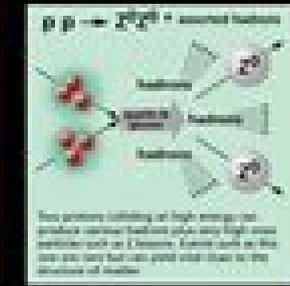
Baryons (qqq) and Antibaryons ($\bar{q}\bar{q}\bar{q}$)					
Baryons are fermions (half-integer spin). There are about 100 types of baryons.					
Symbol	Quarks	Quark content	Electric charge	Mass GeV/c ²	Spin
p	uud	uud	+	0.938	1/2
\bar{p}	$\bar{u}\bar{u}\bar{d}$	$\bar{u}\bar{u}\bar{d}$	-	0.938	1/2
n	udd	udd	0	0.938	1/2
\bar{n}	$\bar{u}\bar{d}\bar{d}$	$\bar{u}\bar{d}\bar{d}$	0	0.938	1/2
Δ^+	uud	uud	+	1.193	3/2
Δ^0	uud	uud	0	1.193	3/2

Property	Interaction	Fundamental			
		Gravitational	Weak	Electromagnetic	Strong
Acts on		Mass + Energy	Flavor	Electric Charge	Color Charge
Particles experiencing		All	Quarks, Leptons	Electrically charged	Quarks, Gluons
Particles mediating		Graviton (not yet observed)	W^\pm, W^\pm, Z^0	γ	Gluons
Strength compared to gravity		10^{-41}	0.01	1	10
Range		10^{-17}	10^{-16}	1	10
Is it easy to observe?		10^{-16}	10^{-16}	1	10

Mesons (qq)					
Mesons are bosons (integer spin). There are about 100 types of mesons.					
Symbol	Quarks	Quark content	Electric charge	Mass GeV/c ²	Spin
π^+	u \bar{d}	$u\bar{d}$	+	0.140	0
K^+	u \bar{s}	$u\bar{s}$	+	0.494	0
ρ^+	u \bar{d}	$u\bar{d}$	+	0.770	1
ρ^0	$u\bar{u} - d\bar{d}$	$u\bar{u} - d\bar{d}$	0	0.770	1
ρ^-	d \bar{u}	$d\bar{u}$	-	0.770	1

Matter and Antimatter
For every particle type there is a corresponding antiparticle type, denoted by a bar over the particle symbol (lepton is l^- , charge is l^+). Particles and antiparticles have identical mass, and spin but opposite charges. Some electrically neutral bosons (e.g., Z^0 , γ , and g), and all 0^+ and 1^+ fermions are their own antiparticles.

Quarks
These diagrams are an explicit illustration of physical processes. They are not meant to have the appearance of a code. Green shaded areas represent the cloud of gluons in the gluon field, and red lines the quark paths.



The Particle Adventure
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Theory Of Particle Interactions

Ronald Gautreau, William Savin



Theory Of Particle Interactions:

The Theory of Particle Interactions V.V. Belokurov,1991 The book introduces modern quantum field theory to students and physic

Nuclear Science Abstracts ,1976 *Particles and Fundamental Interactions* Sylvie Braibant,Giorgio Giacomelli,Maurizio Spurio,2011-11-16 The book provides theoretical and phenomenological insights on the structure of matter presenting concepts and features of elementary particle physics and fundamental aspects of nuclear physics Starting with the basics nomenclature classification acceleration techniques detection of elementary particles the properties of fundamental interactions electromagnetic weak and strong are introduced with a mathematical formalism suited to undergraduate students Some experimental results the discovery of neutral currents and of the W and Z0 bosons the quark structure observed using deep inelastic scattering experiments show the necessity of an evolution of the formalism This motivates a more detailed description of the weak and strong interactions of the Standard Model of the microcosm with its experimental tests and of the Higgs mechanism The open problems in the Standard Model of the microcosm and macrocosm are presented at the end of the book

Charged-particle Interactions Hendrik Haeringen,1985 NASA Thesaurus ,1988

Particle Interactions at Very High Energies Francis Halzen,Jacques Weyers,David Speiser,2018-07-16 *The Relativistic Quantum Theory of Elementary Particle Interactions* Paul Taunton Matthews,1957

An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994 *Lectures on Particles' and Field Theory* Brandeis University. Summer Institute in Theoretical Physics,1970

Group Theory and the Interaction of Composite Nucleon Systems Peter Kramer,Gero John,Dieter Schenzle,1981 The study which forms the second volume of this series deals with the interplay of groups and composite particle theory in nuclei Three main branches of ideas are developed and linked with composite particle theory the pennutational structure of the nuclear fermion system the classification scheme based on the orbital partition and the associated supennuitplets and the representation in state space of geometric trans fonnations in classical phase space One of the authors p K had the opportunity to present some of the ideas under lying this work at the 15th Solvay Conference on Symmetry Properties of Nuclei in 1970 Since this time the authors continued their joint effort to decipher the conceptual struc ture of composite particle theory in tenns of groups and their representations The pattern of connections is fully developed in the present study The applications are carried to the points where the impact of group theory may be recognized The range of applications in our opinion goes far beyond these points

A Kinetic Theory of Weak Wave-particle Interactions in an Auroral Plasma ,1978

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Particle Interactions at High Energies T. W. Preist, 2014-11-14 U.S. Government Research & Development Reports, 1970 The Physical Principles of the Quantum Theory Werner Heisenberg, 1930 Weak Interactions, and Topics in Dispersion Physics Christian Fronsdal, 1963 *The Theory of Electricity* George Henry Livens, 1926 **Schaum's Outline of Theory and Problems of Modern Physics** Ronald Gautreau, William Savin, 1978

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