

THE STANDARD MODEL OF FUNDAMENTAL PARTICLES AND INTERACTIONS

The Standard Model is a quantum theory that summarizes our current knowledge of the structure of matter and the interactions between its constituents. Fundamental interactions are mediated by forces and by bosons, units of exchange particles.

FERMIONS

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

Leptons spin = 1/2			Quarks spin = 1/2		
Flavor	Mass (GeV/c ²)	Electric charge	Flavor	Approx. Mass (GeV/c ²)	Electric charge
ν_e electron neutrino	< 0.0000001	0	u up	0.0022	2/3
e^- electron	0.000511	-1	d down	0.0047	-1/3
ν_μ muon neutrino	< 0.0000000001	0	c charm	1.27	2/3
μ^- muon	0.1057	-1	b strange	0.0034	-1/3
ν_τ tauon neutrino	< 0.0000000001	0	t top	172.7	2/3
τ^- tau	1.777	-1	b bottom	4.18	-1/3

*See the neutrino paragraph below.

Mass is the intrinsic energy contribution of particles. Spin is given in units of \hbar , which is the quantum unit of angular momentum where $\hbar = 6.626 \times 10^{-34}$ J s and $\hbar = 1.054 \times 10^{-34}$ eV s.

Electric charge is given in units of the proton's charge, e . It is only the electric charge of the proton is 1.602×10^{-19} coulombs.

The energy unit of particle physics is the electronvolt (eV), the energy gained by one electron in one volt average difference of potential. Masses are given in GeV/c², where $1 \text{ GeV} = 10^9 \text{ eV} = 1.602 \times 10^{-10}$ joules. The mass of the proton is 0.938 GeV/c² = 1.672×10^{-27} kg.

Neutrinos

Neutrinos are produced in the sun, radioactive reactions, astrophysical processes, and many other processes. They produced neutrinos can be described as any of three flavors: electron neutrino, ν_e , μ neutrino, or ν_μ . The type of charged lepton associated with its production. Each is a different quantum number of the three different mass neutrinos ν_e , ν_μ , and ν_τ for which currently observed flavor eigenstates are chosen as the basis. Further, observation of the production of neutrinos does not guarantee that it is indeed that flavor and neutrinos can be produced in many and many structures.

Matter and Antimatter

For every particle there exists a corresponding antiparticle that, besides its mass, has opposite electric charge, opposite baryon number, and opposite lepton number. Some elementary particles have zero mass (e.g., ν_e , ν_μ , and ν_τ), but not all particles have zero antiparticles.

Particle Processes

These diagrams are an artist's conception. Charge (red) and mass (green) are conserved.

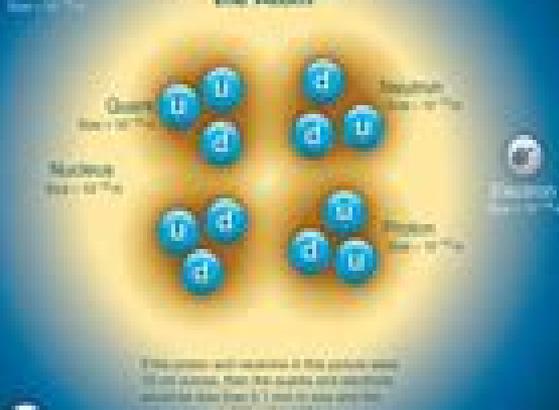
$e^- \rightarrow \mu^- + \nu_e + \bar{\nu}_\mu$

A free neutron (not shown) can decay by a similar decay, producing an electron, an antineutrino, and a proton (conserving baryon number). This is a reaction of beta decay.

$e^+ e^- \rightarrow \mu^+ \mu^-$

An electron and positron annihilation, creating a high-energy muon and anti-muon. The μ^+ and μ^- particles are a virtual Z boson in a virtual photon.

Structure within the Atom



Properties of the Interactions

The strength of the interaction, G , varies, as shown, from the strength of the electromagnetic force to the strength associated with the unified interaction.

Property	Gravitational Interaction	Weak Interaction (electroweak)	Electromagnetic Interaction	Strong Interaction
Acts on	Mass + Energy	Flavor	Electric Charge	Color Charge
Particles participating	All	Quarks, Leptons	Electrically Charged	Quarks, Gluons
Particles mediating	Graviton (not yet observed)	W^+ , W^- , Z^0	γ	Gluons
Strength at $\left(\frac{m_p}{m_e} \right)^2$	10^{-38} 10^{-42}	0.1 10^{-5}	1 0	10 10

BOSONS

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

Unified Electroweak spin = 1			Strong (color) spin = 1		
Name	Mass (GeV/c ²)	Electric charge	Name	Mass (GeV/c ²)	Electric charge
γ photon	0	0	g gluon	0	0
W^- W boson	80.36	-1	Higgs Boson spin = 0		
W^+ W boson	80.36	+1	Name	Mass (GeV/c ²)	Electric charge
Z^0 Z boson	91.186	0	H Higgs	125.20	0

Higgs Boson

The Higgs boson is a crucial component of the Standard Model. The associated Higgs field provides the mechanism by which fundamental particles get mass. Particles that interact more strongly with the Higgs field are more massive.

Color Charge

Strongly interacting particles carry "strong charge" (also called "color charge") and not these strong interactions that occur between these forms of color charge. These charges have nothing to do with the color of visible light, and are completely orthogonal quantum charges by exchanging quarks, in strong interactions, color-charged particles, except by exchanging quarks.

Quarks Confined in Mesons and Baryons

Quarks and gluons combine to form hadrons. They are confined in color-neutral particles called hadrons. The confinement (binding) results from multiple exchanges of gluons among the color-charged constituents. An exchange of gluons carries away "color" from each, so the energy in the interaction field between them increases. The energy eventually is converted into additional quark-antiquark pairs. The quarks and antiquarks then combine into hadrons. There are the particles seen in nature.

The types of hadrons that have been observed in nature consist of all baryons and mesons. Among the many types of baryons observed are the proton (uud), antiproton ($\bar{u}\bar{u}\bar{d}$), and neutron (udd). Quarks change color in just a way as to make the proton have charge $2/3$ and the neutron charge 0 . Among the many types of mesons are the pion ($u\bar{d}$), kaon ($u\bar{s}$), and K^0 ($d\bar{s}$).

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Unsolved Mysteries

Drawn by two scientists in our understanding of the physical world, particle physicists are following paths to new theories and starting theories. Experiments may reveal the more dimensions of space, fundamental laws, hidden entities of string theory.

Why is the Universe Accelerating?



The expansion of the universe appears to be accelerating. Is this due to Einstein's cosmological constant? Or, are our assumptions about a new form of matter or some other physical dimensions of space?

Why No Antimatter?



Matter and antimatter were created in the Big Bang. Why do we live and not matter-antimatter? From all experiments, there is less than a billionth of antimatter in the lab and observed in nature. How?

What is Dark Matter?



Visible forms of matter make up much of the mass observed in galaxies and clusters of galaxies. But the dark matter makes up the rest of the mass. How much? Why is it there? Why is it not there?

Are there Extra Dimensions?



All evidence for extra dimensions that the the standard model of physics requires and the other three fundamental forces, gravity, and electromagnetism, can be explained by a single theory, but only if there are extra dimensions. How many?

A Level Physics Nuclear Physics And Fundamental Particles

Brian R. Martin, Graham Shaw



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Nuclear Physics and Fundamental Particles Roger Muncaster, 1995 Its large format allows for the clear presentation of topics Illustrations and charts are used wherever possible to convey information and enhance the text Student friendly language is used throughout Consolidation sections stress key points Definitions and fundamental points are highlighted Worked examples are included throughout Questions are included at relevant points in the text allowing students to test immediately their understanding of a topic In addition each chapter ends with a selection of questions the majority of which are taken from past examination papers

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Introduction to Nuclear and Particle Physics Ashok Das, 2003 Annotation Readership Advanced undergraduates and researchers in nuclear and particle physics

The Basics of Nuclear and Particle Physics Alexander Belyaev, Douglas Ross, 2021-11-08 This undergraduate textbook breaks down the basics of Nuclear Structure and modern Particle Physics Based on a comprehensive set of course notes it covers all the introductory material and latest research developments required by third and fourth year physics students The textbook is divided into two parts Part I deals with Nuclear Structure while Part II delves into Particle Physics Each section contains the most recent science in the field including experimental data and research on the properties of the top quark and Higgs boson Detailed mathematical derivations are provided where necessary to help students grasp the physics at a deeper level Many of these have been conveniently placed in the Appendices and can be omitted if desired Each chapter ends with a brief summary and includes a number of practice problems the answers to which are also provided

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Nuclear Science Abstracts, 1969 NSA is a comprehensive collection of international nuclear science and technology literature for the period 1948 through 1976 pre dating the prestigious INIS

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Nuclear and Particle Physics Brian R. Martin, Graham Shaw, 2019-02-08 Updated and expanded edition of this well known Physics textbook provides an excellent Undergraduate introduction to the field This new edition of Nuclear and Particle Physics continues the standards established by its predecessors offering a comprehensive and highly readable overview of both the theoretical and experimental areas of these fields The updated and expanded text covers a very wide range of topics in particle and nuclear physics with an emphasis on the phenomenological approach to understanding experimental data It is one of the few publications currently available that gives equal treatment to both fields while remaining accessible to undergraduates Early chapters cover basic concepts of nuclear and particle physics before describing their respective phenomenologies and experimental methods Later chapters interpret data through models and theories such as the standard model of particle physics and the liquid drop and shell models of nuclear physics and also discuss many applications of both fields The concluding two chapters deal with practical applications and outstanding issues including extensions to the standard model implications for particle astrophysics improvements in medical imaging and prospects for power production There are a number of useful appendices Other notable features include New or expanded coverage of developments in relevant fields such as the discovery of the Higgs boson recent results in neutrino physics research to test theories beyond the standard model such as supersymmetry and important technical advances such as Penning traps used for high precision measurements of nuclear masses Practice problems at the end of chapters excluding the last chapter with solutions to selected problems provided in an appendix as well as an extensive list of references for further reading Companion website with solutions odd numbered problems for students all problems for instructors PowerPoint lecture slides and other resources As with previous editions the balanced coverage and additional resources provided makes Nuclear and Particle Physics an excellent foundation for advanced undergraduate courses or a valuable general reference text for early graduate studies

The Budget of the United States Government United States, United States. Office of Management and Budget, 1995

Atomic and Nuclear Physics Thomas Albert Littlefield, 2012-12-06 After the death of Dr Littlefield it was decided that I should undertake the revision of the whole of Atomic and Nuclear Physics an Introduction for the third edition and it was soon apparent that major changes were necessary I am confident that these changes would have had Dr Littlefield's approval The prime consideration for the present edition has been to modernize at a minimum cost As much as possible of the second edition has therefore been retained but where changes have been made

they have been fairly drastic. Thus the chapters on fine structure wave mechanics, the vector model of the atom, Pauli's principle and the Zeeman effect have been completely restructured. The chapters on nuclear models, cosmic rays, fusion systems and fundamental particles have been brought up to date while a new chapter on charm and the latest ideas on quarks has been included. It is hoped that the presentation of the last named will give readers a feeling that physics research can be full of adventure and surprises.

Technical Information Pilot, 1951 **Budget of the United States Government**
United States. Office of Management and Budget, 1995 **Biennial Catalog** New Mexico Institute of Mining and
Technology, New Mexico. Institute of Mining and Technology, 1893 **Handbook on U.S. Study for Foreign Nationals**
Institute of International Education (New York, N.Y.), 1973 **Introduction to Nuclear Physics** Harald A. Enge, 1966
The main parts of this book have been developed from lecture notes for a course in Introduction to Nuclear Physics that were
given at Massachusetts Institute of Technology for a number of years **New Scientist**, 1969 **Nuclei and Particles**
Emilio Segrè, 1974 *Cornell University Courses of Study* Cornell University, 2003 **Bulletin** Northwestern University
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