

The Standard Model of Particle Physics

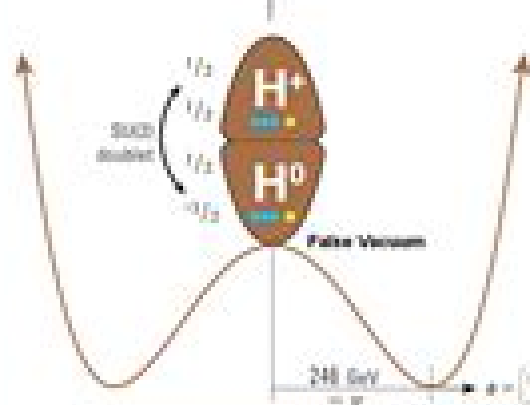
Spin 0
(Higgs Boson)

Hypercharge $\rightarrow Y$
Weak Isospin $\rightarrow T_3$
Gauge boson coupling



Electric Charge
 $Q = Y + T_3$

$$V(\phi) = -\frac{m^2\phi^2}{2} + \frac{\lambda\phi^4}{4}$$



(A) Unbroken Symmetry (Symmetric phase)

(B) Broken Symmetry (Higgs phase/condensate)



Spin 1/2
(Fermions)

Hypercharge $\rightarrow Y$
Weak Isospin $\rightarrow T_3$
Gauge boson coupling



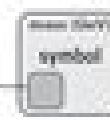
Hypercharge $\rightarrow Y$
Weak Isospin $\rightarrow T_3$
Gauge boson coupling

	1 st	2 nd	3 rd	
Left handed SU(2) doublet	$\begin{matrix} \uparrow \\ \downarrow \\ 1/6 \end{matrix} \begin{matrix} u \\ d \end{matrix}$	$\begin{matrix} \uparrow \\ \downarrow \\ 1/6 \end{matrix} \begin{matrix} c \\ s \end{matrix}$	$\begin{matrix} \uparrow \\ \downarrow \\ 1/6 \end{matrix} \begin{matrix} t \\ b \end{matrix}$	Quarks
Left handed SU(2) doublet	$\begin{matrix} \uparrow \\ \downarrow \\ -1/6 \end{matrix} \begin{matrix} \nu_e \\ e \end{matrix}$	$\begin{matrix} \uparrow \\ \downarrow \\ -1/6 \end{matrix} \begin{matrix} \nu_\mu \\ \mu \end{matrix}$	$\begin{matrix} \uparrow \\ \downarrow \\ -1/6 \end{matrix} \begin{matrix} \nu_\tau \\ \tau \end{matrix}$	Leptons

10^{-12} sec after BB, ~ 100 GeV

Spin 1
(Gauge Bosons)

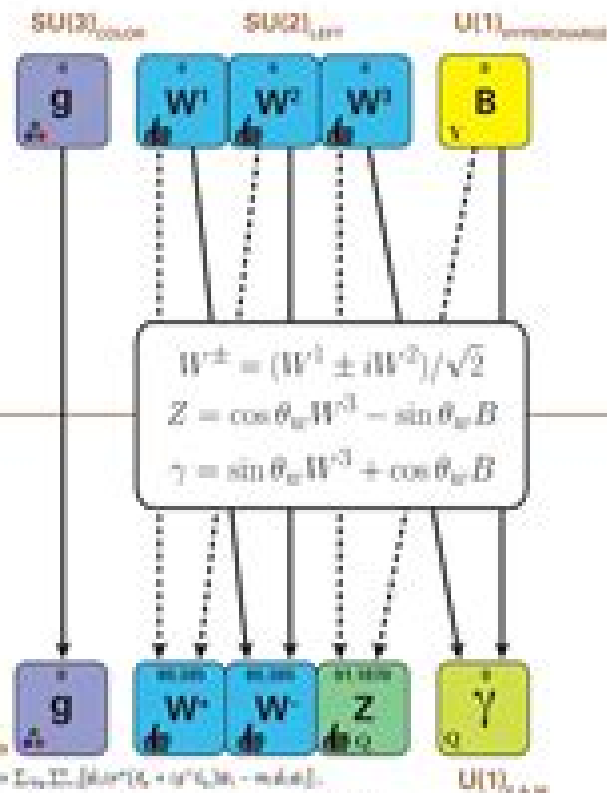
Hypercharge $\rightarrow Y$
Weak Isospin $\rightarrow T_3$
Gauge boson coupling



$$\cos \theta_W = \frac{g}{\sqrt{g^2 + g'^2}}$$

$$\sin \theta_W = \frac{g'}{\sqrt{g^2 + g'^2}}$$

g : weak coupling constant
 g' : em. coupling constant



$$W^\pm = (W^1 \pm iW^2)/\sqrt{2}$$

$$Z = \cos \theta_W W^3 - \sin \theta_W B$$

$$\gamma = \sin \theta_W W^3 + \cos \theta_W B$$

$L_{\text{fermion}} = -\frac{1}{2} \bar{\psi}_L \gamma^\mu \not{D} \psi_L + \sum_{\text{flavors}} \bar{\psi}_R \not{D} \psi_R$
where ψ_L is the spinor field, ψ_R is the spinor field, while the gauge field $A_\mu = A_\mu^a T_a = A_\mu^a (i/2) \sigma_a$, the superscript 'a' is the gauge index from 1 to 8, g the coupling constant, ψ_L the sum of the spinors.

$$\mathcal{L}_H = \frac{1}{2} \partial_\mu H \partial^\mu H - \frac{1}{2} m_H^2 H^2 - \frac{\lambda}{4} H^4$$

where $\mathcal{L}_H = \frac{1}{2} \partial_\mu H \partial^\mu H - \frac{1}{2} m_H^2 H^2 - \frac{\lambda}{4} H^4$ where $\mathcal{L}_H = \frac{1}{2} \partial_\mu H \partial^\mu H - \frac{1}{2} m_H^2 H^2 - \frac{\lambda}{4} H^4$ where $\mathcal{L}_H = \frac{1}{2} \partial_\mu H \partial^\mu H - \frac{1}{2} m_H^2 H^2 - \frac{\lambda}{4} H^4$

Quantum Field Theory And The Standard Model

**Laurent Baulieu, John Iliopoulos, Roland
Sénéor**



Quantum Field Theory And The Standard Model:

Quantum Field Theory and the Standard Model Matthew D. Schwartz, 2014 A modern introduction to quantum field theory for graduates providing intuitive physical explanations supported by real world applications and homework problems

Uncovering Quantum Field Theory and the Standard Model Wolfgang Bietenholz, Uwe-Jens Wiese, 2024 Provides a broad and accessible introduction to quantum field theory and the Standard Model of particle physics adopting a distinctive pedagogical approach with clear intuitive explanations to complement the mathematical exposition Includes topics of current research both within and beyond the Standard Model [Introduction To Quantum Field Theory And The Standard Model](#)

Wolfgang Hollik, 2021-12-28 Based on the lectures given at TU Munich for third year physics students this book provides the basic concepts of relativistic quantum field theory perturbation theory Feynman graphs Abelian and non Abelian gauge theories with application to QED QCD and the electroweak Standard Model It also introduces quantum field theory and particle physics for beginning graduate students with an orientation towards particle physics and its theoretical foundations Phenomenology of W and Z bosons as well as Higgs bosons is part of the electroweak chapter in addition to recent experimental results precision tests and current status of the Standard Model [Uncovering Quantum Field Theory and the Standard Model](#)

Wolfgang Bietenholz, Uwe-Jens Wiese, 2025-01-02 Ideal for graduate courses on quantum field theory and the Standard Model and as a reference for experienced researchers [Particles, Fields and Forces](#) Wouter Schmitz, 2019-04-23 How can fundamental particles exist as waves in the vacuum How can such waves have particle properties such as inertia What is behind the notion of virtual particles Why and how do particles exert forces on one another Not least What are forces anyway These are some of the central questions that have intriguing answers in Quantum Field Theory and the Standard Model of Particle Physics Unfortunately these theories are highly mathematical so that most people even many scientists are not able to fully grasp their meaning This book unravels these theories in a conceptual manner using more than 180 figures and extensive explanations and will provide the nonspecialist with great insights that are not to be found in the popular science literature **Particles, Fields, Quanta** Gerhard Ecker, 2019-04-05 This book provides an introduction to the current state of our knowledge about the structure of matter Gerhard Ecker describes the development of modern physics from the beginning of the quantum age to the standard model of particle physics the fundamental theory of interactions of the microcosm The focus lies on the most important discoveries and developments e g of quantum field theory gauge theories and the future of particle physics The author also emphasizes the interplay between theory and experiment which helps us to explore the deepest mysteries of nature Particles Fields Quanta is written for everyone who enjoys physics It offers high school graduates and students of physics in the first semesters an encouragement to understand physics more deeply Teachers and others interested in physics will find useful insights into the world of particle physics For advanced students the book can serve as a comprehensive preparation for lectures on particle physics and quantum field theory A brief outline

of the mathematical structures an index of persons with research focuses and a glossary for quick reference of important terms such as gauge theory spin and symmetry complete the book From the foreword by Michael Springer The great successes and the many open questions this book describes illustrate how immensely complicated nature is and nevertheless how much we already understand of it The author Gerhard Ecker studied theoretical physics with Walter Thirring at the University of Vienna His research focus has been on theoretical particle physics in particular during several long term visits at CERN the European Organisation for Nuclear Research in Geneva In 1986 he was promoted to Professor of Theoretical Physics at the University of Vienna Since 1977 he has given both basic lectures in theoretical physics and advanced courses on different topics in particle physics e g quantum field theory symmetry groups in particle physics and renormalisation in quantum field theory

Symmetry and the Standard Model Matthew Robinson, 2011-08-17 While theoretical particle physics is an extraordinarily fascinating field the incredibly fast pace at which it moves along combined with the huge amount of background information necessary to perform cutting edge research poses a formidable challenge for graduate students This book represents the first in a series designed to assist students in the process of transitioning from coursework to research in particle physics Rather than reading literally dozens of physics and mathematics texts trying to assimilate the countless ideas translate notations and perspectives and see how it all fits together to get a holistic understanding this series provides a detailed overview of the major mathematical and physical ideas in theoretical particle physics Ultimately the ideas will be presented in a unified consistent holistic picture where each topic is built firmly on what has come before and all topics are related in a clear and intuitive way This introductory text on quantum field theory and particle physics provides both a self contained and complete introduction to not only the necessary physical ideas but also a complete introduction to the necessary mathematical tools Assuming minimal knowledge of undergraduate physics and mathematics this book lays both the mathematical and physical groundwork with clear intuitive explanations and plenty of examples The book then continues with an exposition of the Standard Model of Particle Physics the theory that currently seems to explain the universe apart from gravity Furthermore this book was written as a primer for the more advanced mathematical and physical ideas to come later in this series

From Classical to Quantum Fields Laurent Baulieu, John Iliopoulos, Roland Sénéor, 2017-02-10 Quantum Field Theory has become the universal language of most modern theoretical physics This introductory textbook shows how this beautiful theory offers the correct mathematical framework to describe and understand the fundamental interactions of elementary particles The book begins with a brief reminder of basic classical field theories electrodynamics and general relativity as well as their symmetry properties and proceeds with the principles of quantisation following Feynman s path integral approach Special care is used at every step to illustrate the correct mathematical formulation of the underlying assumptions Gauge theories and the problems encountered in their quantisation are discussed in detail The last chapters contain a full description of the Standard Model of particle physics and the attempts to go beyond it such as grand

unified theories and supersymmetry Written for advanced undergraduate and beginning graduate students in physics and mathematics the book could also serve as a reference for active researchers in the field **The Standard Model** Cliff Peter Burgess, Guy David Moore, 2006 The standard model of particle physics is used to introduce quantum field theory It is a modern approach emphasizing effective field theory techniques and containing discussions of some of the main proposals for going beyond the standard model It is ideal for graduate students in theoretical and experimental particle physics

Introduction to the Standard Model Stuart Raby, 2021-07-08 Develops a practical understanding of the theoretical concepts required to understand the Standard Model for a two semester graduate course

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