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# Effective Field Theories in Flavour Physics

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# Effective Field Theories In Flavour Physics

**Antonino Zichichi**



## **Effective Field Theories In Flavour Physics:**

**Effective Field Theories in Flavour Physics** Thomas Mannel, 2014-03-12 The book constitutes a compact review of the applications of effective field theory methods in flavour physics with emphasis on heavy quark physics Some of the relevant applications are discussed to illustrate the method It covers the full range of theoretical tools related to the application of the effective field theory idea Starting from the weak interactions as an effective theory derived from the standard model well established methods such as heavy quark effective theory the heavy quark mass expansion and chiral perturbation theory are addressed Also more recent ideas such as QCD factorization and soft collinear effective theory are outlined Finally the standard model itself is viewed as an effective theory allowing a model independent look at the results of the new physics The book should be useful for the advanced graduate student as well as for scientists who are interested in the theoretical toolkit used in the context of flavour physics It is not meant as a complete review of the subject rather it should be useful as an introduction to the basic ideas

**Effective Field Theories in Flavour Physics** Thomas Mannel, 2004-11-11 The book constitutes a compact review of the applications of effective field theory methods in flavour physics with emphasis on heavy quark physics Some of the relevant applications are discussed to illustrate the method It covers the full range of theoretical tools related to the application of the effective field theory idea Starting from the weak interactions as an effective theory derived from the standard model well established methods such as heavy quark effective theory the heavy quark mass expansion and chiral perturbation theory are addressed Also more recent ideas such as QCD factorization and soft collinear effective theory are outlined Finally the standard model itself is viewed as an effective theory allowing a model independent look at the results of the new physics The book should be useful for the advanced graduate student as well as for scientists who are interested in the theoretical toolkit used in the context of flavour physics It is not meant as a complete review of the subject rather it should be useful as an introduction to the basic ideas

*Effective Field Theories* Alexey A Petrov, Andrew E Blechman, 2015-11-18 This book is a broad based text intended to help the growing student body interested in constructing and applying methods of effective field theory to solve problems in their research It begins with a review of using symmetries to identify the relevant degrees of freedom in a problem and then presents a variety of methods that can be used to construct various effective theories A detailed discussion of canonical applications of effective field theory techniques with increasing complexity is given including Fermi's weak interaction heavy quark effective theory and soft collinear effective theory Applications of these techniques to study physics beyond the standard model dark matter and quantum and classical gravity are explored Although most examples come from questions in high energy physics many of the methods can also be applied in condensed matter settings Appendices include various factoids from group theory and other topics that are used throughout the text in an attempt to make the book self contained

[Effective Field Theories](#) Ulf-G Meißner, Akaki Rusetsky, 2022-08-25 Effective field theories are a widely used tool in various branches of physics This book provides a

comprehensive discussion of the foundations and fundamentals of effective field theories of quantum chromodynamics QCD in the light quark sector with an emphasis on the study of flavour symmetries and their realizations In this context different types of effective field theories pertaining to various energy scales are considered and selected applications are devised It also covers the formulation of effective field theories in a finite volume and its application in the analysis of lattice QCD data Effective Field Theories is intended for graduate students and researchers in particle physics hadron physics and nuclear physics Exercises are included to help the reader deepen their understanding of the topics discussed throughout with solutions available to lecturers

*Effective Field Theory in Particle Physics and Cosmology* Sacha Davidson, Paolo Gambino, Mikko Laine, Matthias Neubert, Christophe Salomon, 2020 The topic of the CVIII session of Les Houches School held in July 2017 was Effective Field Theory EFT The goal of this school was to offer a broad introduction to the foundations and modern applications of Effective Field Theory in many of its incarnations

Control Theory in Physics and Other Fields of Science Michael Schulz, 2006-01-13 This book covers systematically and in a simple language the mathematical and physical foundations of controlling deterministic and stochastic evolutionary processes in systems with a high degree of complexity Strong emphasis is placed on concepts methods and techniques for modelling assessment and the solution or estimation of control problems in an attempt to understand the large variability of these problems in several branches of physics chemistry and biology as well as in technology and economics The main focus of the book is on a clear physical and mathematical understanding of the dynamics and kinetics behind several kinds of control problems and their relation to self organizing principles in complex systems The book is a modern introduction and a helpful tool for researchers engineers as well as post docs and graduate students interested in an application oriented control theory and related topics

**8th Workshop on Theory, Phenomenology and Experiments in Flavour Physics** Giulia Ricciardi, Guglielmo De Nardo, Mario Merola, 2023-07-25 This book is a collection of invited contributions presented at the 8th edition of the International Workshop on Theory Phenomenology and Experiments in Flavour Physics held on the Island of Capri Italy on 11-13 June 2022 It is a joint workshop between experimentalists and theoreticians aiming at debating recent results and hot topics in flavour physics in an interdisciplinary effort Flavour electroweak physics and neutrino physics are all foremost in the assessment of results within the standard model and search for physics beyond Anomalies in flavour physics are hints on new physics while with neutrino masses and oscillations the new physics has already started Contributions deal mainly with the flavour anomalies the flavour problem from leptons to quarks and back including continuous versus discrete symmetries and the connections between the Higgs sector and neutrinos embracing see saw models and Higgs potential analyses Focus is on neutrinos at high and low scales including LHC searches and CLVF leptogenesis connections with dark sectors and NP mediators non standard neutrino interactions and the problem of the nature of massive neutrinos

**Two Applications of Effective Field Theory: Factorisation of  $G \rightarrow h$  in SCET & Flavour Physics of ALPs** Marvin Schnubel, 2023 **Heavy**

**Flavour Physics Theory and Experimental Results in Heavy Quark Physics** C.T.H Davies,S.M Playfer,2019-03-29 This book provides a thorough introduction to the phenomenology of heavy flavour physics those working on the B factories LHCb BTeV HERA and the Tevatron It explains how heavy quark theory could be implemented on the lattice and discusses the status of CP violation in the neutral kaon system

**Dynamics of the Standard Model** John F. Donoghue,Eugene Golowich,Barry R. Holstein,2023-02-16 This 2014 edition now OA provides a detailed and practical account of the Standard Model of particle physics

**Physics at the Terascale** Ian Brock,Thomas Schörner-Sadenius,2011-05-04 Written by authors working at the forefront of research this accessible treatment presents the current status of the field of collider based particle physics at the highest energies available as well as recent results and experimental techniques It is clearly divided into three sections The first covers the physics discussing the various aspects of the Standard Model as well as its extensions explaining important experimental results and highlighting the expectations from the Large Hadron Collider LHC The second is dedicated to the involved technologies and detector concepts and the third covers the important but often neglected topics of the organisation and financing of high energy physics research A useful resource for students and researchers from high energy physics

**The Flow Equation Approach to Many-Particle Systems** Stefan Kehrein,2007-01-09 Overthepastdecade the owequationmethodhasdevelopedintoanewv satile theoretical approach to quantum many body physics Its basic concept was conceived independently by Wegner 1 and by G lazek and Wilson 2 3 the derivation of a unitary ow that makes a many particle Hamiltonian creasingly energy diagonal This concept can be seen as a generalization of theconventionalscalingapproachesinmany bodyphysics wheresomeult violet energy scale is lowered down to the experimentally relevant low energy scale 4 The main di erence between the conventional scaling approach and the ow equation approach can then be traced back to the fact that the ow equation approach retains all degrees of freedom i e the full Hilbert space while the conventional scaling approach focusses on some low energy subspace One useful feature of the ow equation approach is therefore that it allows the calculation of dynamical quantities on all energy scales in one uni ed framework Since its introduction a substantial body of work using the ow eq tion approach has accumulated It was used to study a number of very d ferent quantum many body problems from dissipative quantum systems to correlated electron physics Recently it also became apparent that the ow equation approach is very suitable for studying quantum many body n equilibrium problems which form one of the current frontiers of modern theoretical physics Therefore the time seems ready to compile the research literature on ow equations in a consistent and accessible way which was my goal in writing this book

**Lectures on Flavor Physics** U.-G. Meißner,Willibald Plessas,2004-07-05 This volume contains the edited versions of some selected lectures delivered at the famous Schladming Winter School devoted to Flavor Physics in the present case Flavor physics is one of the hot topics in contemporary elementary particle physics because it relates to fundamental questions like the origin of masses the size and strength of CP violation and the oscillations between various neutrino species

This volume will be useful for graduate students wishing to get more acquainted with the field as well as for lecturers in search of material for seminars of special lectures and courses in quantum field theory

Electrical Resistivity of Thin Metal Films Peter Wissmann, Hans-Ulrich Finzel, 2007 The intent of this book is to report on the electrical optical and structural properties of silver and gold films in dependence on substrate material annealing treatment and gas adsorption A main point is the calculation of the scattering cross section of the conduction electrons All results are substantiated by extended experimental data as well as numerous illustrations and tables

**Subnuclear Physics** Antonino Zichichi, 2000 For the Galvani Bicentenary Celebrations the University of Bologna and its Academy of Sciences singled out subnuclear physics as the field of scientific research to be associated with this important event as it would best illustrate for the new generation of students the challenge inherent in fundamental sciences Subnuclear physics has represented ever since it was born the new frontiers of Galilean science In his opening lecture delivered on the first day of the new academic year Professor Antonino Zichichi analytically reviewed the basic conceptual developments and main discoveries achieved in subnuclear physics since its birth in the 20th century Given the importance of this field of fundamental research Professor Zichichi was invited to expand the contents of his lecture into a book and the outcome is this volume

Evaluating Feynman Integrals Vladimir A. Smirnov, 2004-12-13 The problem of evaluating Feynman integrals over loop momenta has existed from the early days of perturbative quantum field theory Although a great variety of methods for evaluating Feynman integrals has been developed over a span of more than fifty years this book is a first attempt to summarize them Evaluating Feynman Integrals characterizes the most powerful methods in particular those used for recent quite sophisticated calculations and then illustrates them with numerous examples starting from very simple ones and progressing to nontrivial examples

*Flavor Physics, Proceedings Of Icfp2001* Yue-liang Wu, 2002-05-14 This volume contains many excellent articles presenting the most recent progress in high energy physics and the current interesting problems concerning flavor physics The reader will see how flavor physics has become a central area of particle physics with the Standard Model SM being subjected to increasingly precise experiments and why the remaining puzzles in the SM such as the mechanisms of symmetry breaking and CP violation as well as fermion mass and mixing generation all are mysteries hidden in the physics of flavor The book also shows that flavor physics is likely to be a window for probing new physics beyond the SM for many years to come

**Theory of the Muon Anomalous Magnetic Moment** Kirill Melnikov, Arkady Vainshtein, 2007-01-09 The theory of the muon anomalous magnetic moment is particle physics in a nutshell It is an interesting exciting and difficult subject and this book provides a comprehensive review of it The theory of the muon anomalous magnetic moment is at the cutting edge of current research in particle physics and any deviation between the theoretical prediction and the experimental value might be interpreted as a signal of an as yet unknown new physics

*Unconventional Superconductors* Gernot Goll, 2006 This book offers a comprehensive summary of experiments that are especially suited to reveal the order parameter symmetry of unconventional

superconductors It briefly introduces readers to the basic theoretical concepts and terms of unconventional superconductivity followed by a detailed overview of experimental techniques and results investigating the superconducting energy gap and phase plus the pairing symmetry This review includes measurements of specific heat thermal conductivity penetration depth and nuclear magnetic resonance and muon spin rotation experiments Further point contact and tunnelling spectroscopy and Josephson experiments are addressed Current understanding is reviewed from the experimental point of view With an appendix offering five tables with almost 200 references that summarize the present results from ambient pressure heavy fermion and noncopper oxide superconductors the monograph provides a valuable resource for further studies in this field

**Theory of Light Hydrogenic Bound States** Michael I. Eides, Howard Grotch, Valery A. Shelyuto, 2007 The book describes the modern theory of light hydrogen like systems and the discussion is based on quantum electrodynamics In particular Green's functions relativistic bound state equations and Feynman diagrams are extensively used New theoretical approaches are described and explained The book contains derivation of many theoretical results obtained in recent years A complete set of all theoretical results for the energy levels of hydrogen like bound states as well as comparison with experiment is presented

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