

Heavy quark effective theory

- Heavy Quark Effective Theory (HQET) is a simplification of the quantum field theory used to describe the interactions of heavy quarks
- It assumes that the mass of the heavy quark is infinitely large compared to the energy scale of interest, allowing for easier calculations
- HQET separates the effects of the quark's mass from its interactions, focusing on the dynamics due to the chromodynamic force
- This theory is particularly useful for making predictions in systems containing charm or bottom quarks

Practical example: Particle accelerators

- Heavy quark effective theory (HQET) is a simplification used in quantum chromodynamics to understand the behavior of heavy quarks
- In particle accelerators, these theories are crucial as they help scientists predict how particles like charm or bottom quarks behave under extreme conditions
- This is important for experiments that probe the fundamental aspects of matter, aiming to uncover new particles and forces in the universe
- HQET makes these predictions manageable and more accurate, enhancing our understanding of particle physics

Heavy Quark Effective Theory

Andrey G. Grozin



Heavy Quark Effective Theory:

Heavy Quark Effective Theory Andrey G Grozin,2014-01-15 **Heavy quark effective theory** Dan Pirjol,1995

Heavy Quark Effective Theory Andrey G. Grozin,2004-04-07 This up to date review also serves as an introduction to Heavy Quark Effective Theory HQET a new approach to heavy quark physics problems in Quantum Chromodynamics QCD The book also contains a detailed discussion of the methods of calculation used in HQET along with numerous illustrations

Improved Heavy Quark Effective Theory Currents Oscar F. Hernández,Brian R. Hill,University of California, Los Angeles. Department of Physics,1992 Heavy Quark Effective Theory Andrey G. Grozin,2004-03-01 This up to date review also serves as an introduction to Heavy Quark Effective Theory HQET a new approach to heavy quark physics problems in Quantum Chromodynamics QCD The book also contains a detailed discussion of the methods of calculation used in HQET along with numerous illustrations Heavy Quark Effective Theory Adam Frederick Falk,1991 *Parameters of Heavy Quark Effective Theory from N_f* ,2012

Parameters of Heavy Quark Effective Theory from N_f _327 2 Lattice QCD Benoît Blossier,ALPHA Collaboration,2012 Non Perturbative Heavy Quark Effective Theory Rainer Sommer,2004

Non-perturbative Tests of Heavy Quark Effective Theory,2004 **Non-perturbative Heavy Quark Effective Theory**,2015 **Heavy WIMP Effective Theory** Mikhail P. Solon,2016-02-22 This book is about dark matter s particle nature and the implications of a new symmetry that appears when a hypothetical dark matter particle is heavy compared to known elementary particles Dark matter exists and composes about 85% of the matter in the universe but it cannot be explained in terms of the known elementary particles Discovering dark matter s particle nature is one of the most pressing open problems in particle physics This thesis derives the implications of a new symmetry that appears when the hypothetical dark matter particle is heavy compared to the known elementary particles a situation which is well motivated by the null results of searches at the LHC and elsewhere The new symmetry predicts a universal interaction between dark matter and ordinary matter which in turn may be used to determine the event rate and detectable energy in dark matter direct detection experiments The computation of heavy wino and higgsino dark matter presented in this work has become a benchmark for the field of direct detection This thesis has also spawned a new field of investigation in dark matter indirect detection determining heavy WIMP annihilation rates using effective field theory methods It describes a new formalism for implementing Lorentz invariance constraints in nonrelativistic theories with a surprising result at 1 M 4 order that contradicts the prevailing ansatz in the past 20 years of heavy quark literature The author has also derived new perturbative QCD results to provide the definitive analysis of key Standard Model observables such as heavy quark scalar matrix elements of the nucleon This is an influential thesis with impacts in dark matter phenomenology field theory formalism and precision hadronic physics **Heavy Quark Physics** Aneesh V. Manohar,Mark B. Wise,2023-07-27 An ideal introduction to the physics of heavy quarks for graduate students now reissued as an Open Access book **Heavy Quark Effective Theory**

Computation of the Mass of the Bottom Quark ,2006 **Phenomenological Applications of the Heavy Quark Effective Theory** Zoltan Ligeti,1994 *Non-perturbative Heavy Quark Effective Theory* Rainer Sommer,Jochen Heitger,2003 **Heavy Quark Effective Theory at One-loop Order** Martin Kurth,Rainer Sommer,2001 **Heavy Quark Effective Theory Computation of the Mass of the Bottom Quark** Michele Della Morte,Nicolas Garron,M. Papinutto,Rainer Sommer,2008 **Heavy Quark Effective Theory** ,1994 After a brief introduction the results of application of the heavy quark effective theory to semileptonic decays of beta mesons are discussed A nearly model independent extraction of $\langle \bar{V} V \rangle_{cb}$ from data is described Application of the effective theory to inclusive semileptonic decays of heavy mesons in semileptonic decays of heavy baryons and to the nonleptonic decays of hadrons are outlined The authors conclude by mentioning other areas of research in this very active field **Integrability in Heavy Quark Effective Theory** V. M. Braun,Y. Ji,A. N. Manashov,2018

Whispering the Strategies of Language: An Emotional Journey through **Heavy Quark Effective Theory**

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Heavy Quark Effective Theory Introduction

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