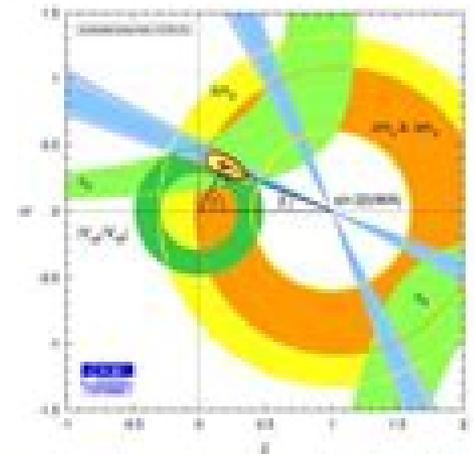


- the laws of physics are almost, but not quite, invariant under CP transformations
- CP violation is believed to be the origin of the matter-antimatter asymmetry in the Universe
- CP violation is built in to the Standard Model (SM), where it is most easily studied in the weak decays of mesons containing heavy quarks, for example at **B-Factories**
- in the SM, weak transitions between quarks are parametrised by the (complex) “CKM Matrix”

$$\begin{array}{c}
 \begin{array}{ccc}
 d & s & b \\
 \left(\begin{array}{ccc}
 V_{ud} & V_{us} & V_{ub} \\
 V_{cd} & V_{cs} & V_{cb} \\
 V_{td} & V_{ts} & V_{tb}
 \end{array} \right)
 \end{array}
 \begin{array}{l}
 u \\
 c \\
 t
 \end{array}
 \end{array}$$



Topics under study at IPPP

- problem of strong interaction effects (heavy quarks confined in mesons) which contaminate weak decay measurements
- sensitivity of B decays (e.g. $B \rightarrow \phi K_S$) to physics beyond the Standard Model, in particular Supersymmetry and models with “large” extra dimensions

Heavy Quark Physics

Stefan Meinel



Heavy Quark 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 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

Heavy quark physics Peter Gosdzinsky, 1995 **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 Physics David Blaschke, Mikhail A. Ivanov, Thomas Mannel, 2004-06-09 This volume covers the main topics in heavy flavour physics in a comprehensive yet accessible way The material is presented as a combination of extensive introductory lectures and more typical contributions This book will benefit postgraduate students and researchers alike

Heavy Quark Effective Theory Andrey G Grozin, 2014-01-15

International Symposium on Heavy Quark Physics Persis S. Drell, David L. Rubin, 1989

Aspects of Heavy Quark Physics Martin Gremm, California Institute of Technology. Division of Physics, Mathematics and Astronomy, 1998

Aspects of Heavy Quark Physics Charles Glenn Boyd, California Institute of Technology. Division of Physics, Mathematics and Astronomy, 1991

Heavy Quark Physics Peter Gosdzinsky, 1995 **Heavy-quark Physics in Quantum Chromodynamics**, 1991 Heavy quarks can expose new symmetries and novel phenomena in QCD not apparent in ordinary hadronic systems In these lectures I discuss the use of effective Lagrangian and light cone Fock methods to analyze exclusive heavy hadron decays such as $Upsilon \rightarrow p \bar{p}$ and $B \rightarrow \pi \pi$ and also to derive effective Schroedinger and Dirac equations for heavy quark systems Two contributions to the heavy quark structure functions of the proton and other light hadrons are identified an extrinsic contribution associated with leading twist QCD evolution of the gluon distribution and a higher twist intrinsic contribution due to the hardness of high mass fluctuations of multi gluon correlations in hadronic wavefunctions A non perturbative calculation of the heavy quark distribution of a meson in QCD in one space and one time is presented The intrinsic higher twist contributions to the pion and proton structure functions can dominate the hadronic production of heavy quark systems at large longitudinal momentum fraction x_F and give anomalous contributions to the quark structure functions of ordinary hadrons at large x_{bj} I also discuss a number of ways in which heavy quark production in nuclear targets can test fundamental QCD phenomena and provide constraints on hadronic wavefunctions The topics include color transparency finite formation time and predictions for charm production at threshold including nuclear bound quarkonium I also discuss a number of QCD mechanisms for the suppression of J/ψ and $Upsilon$ production in nuclear

collisions including gluon shadowing the peripheral excitation of intrinsic heavy quark components at large x and the coalescence of heavy quarks with co-moving spectators at low x

Topics in Heavy Quark Physics Anton N. Kapustin, California Institute of Technology. Division of Physics, Mathematics and Astronomy, 1997 *Heavy Quark Physics*, Ithaca, NY, 1989 Persis S. Drell, David L. Rubin, 1989 Heavy Quark Physics on the Lattice with Improved Nonrelativistic Actions Stefan Meinel, 2010 Hadrons containing heavy quarks in particular b quarks play an important role in high energy physics Measurements of their electroweak interactions are used to test the Standard Model and search for new physics For the comparison of experimental results with theoretical predictions nonperturbative calculations of hadronic matrix elements within the theory of quantum chromodynamics are required Such calculations can be performed from first principles by formulating QCD on a Euclidean spacetime grid and computing the path integral numerically Including b quarks in lattice QCD calculations requires special techniques as the lattice spacing in present computations usually can not be chosen fine enough to resolve their Compton wavelength In this work improved nonrelativistic lattice actions for heavy quarks are used to perform calculations of the bottom hadron mass spectrum and of form factors for heavy to light decays In heavy to light decays additional complications arise at high recoil when the momentum of the light meson reaches a magnitude comparable to the cutoff imposed by the lattice Discretisation errors at high recoil can be reduced by working in a frame of reference where the heavy and light mesons move in opposite directions Using a formalism referred to as moving nonrelativistic QCD mNRQCD the nonrelativistic expansion for the heavy quark can be performed around a state with an arbitrary velocity This dissertation begins with a review of the fundamentals of lattice QCD Then the construction of effective Lagrangians for heavy quarks in the continuum and on the lattice is discussed in detail A highly improved lattice mNRQCD action is derived and its effectiveness is demonstrated by nonperturbative tests involving both heavy heavy and heavy light mesons at several frame velocities This mNRQCD action is then used in combination with a staggered action for the light quarks to calculate hadronic matrix elements relevant for rare B decays including $B \rightarrow K \gamma$ and $B \rightarrow K l l$ A major contribution to the uncertainty of the results also comes from statistical errors The effectiveness of random wall sources to reduce these errors is studied As another application of a nonrelativistic heavy quark action the spectrum of bottomonium is calculated and masses of several bottom baryons are predicted In these computations the light quarks are implemented with a domain wall action

An Introduction to Charm and Heavy Quark Physics, 1987 The physics of the electroweak and strong interactions in the standard model are reviewed especially as they apply to the tau lepton and to charm and heavy quark physics

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spectroscopy decays interactions and effective theories With theoretical foundations and experimental results readers gain a thorough understanding of the complexities of heavy quark physics and its implications for particle physics and beyond Bridging theory and experiment this book empowers readers to explore new frontiers in particle physics and to contribute to the quest for new physics at the frontiers of knowledge

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