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The Anomalous Magnetic Moment of the Muon

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Theory Of The Muon Anomalous Magnetic Moment Springer Tracts In Modern Physics

Stefan Kehrein



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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 [The Anomalous Magnetic Moment of the Muon](#) Friedrich Jegerlehner, 2007-10-26 This book reviews the present state of knowledge of the anomalous magnetic moment a_μ of the muon The muon anomalous magnetic moment is one of the most precisely measured quantities in elementary particle physics and provides one of the most stringent tests of relativistic quantum field theory as a fundamental theoretical framework It allows for an extremely precise check of the standard model of elementary particles and of its limitations **The Anomalous Magnetic Moment of the Muon** Friedrich Jegerlehner, 2017-08-17 This research monograph covers extensively the theory of the muon anomalous magnetic moment and provides estimates of the theoretical uncertainties The muon anomalous magnetic moment is one of the most precisely measured quantities in elementary particle physics and provides one of the most stringent tests of relativistic quantum field theory as a fundamental theoretical framework It allows for an extremely precise check of the standard model of elementary particles and of its limitations This book reviews the present state of knowledge of the anomalous magnetic moment a_μ of the muon Recent experiments at the Brookhaven National Laboratory now reach the unbelievable precision of 0.5 parts per million improving the accuracy of previous a_μ experiments at CERN by a factor of 14 In addition quantum electrodynamics and electroweak and hadronic effects are reviewed Since non perturbative hadronic effects play a key role for the precision test their evaluation is described in detail Perspectives for future improvements of the theoretical and experimental precision are considered The new edition features improved theoretical predictions to match upcoming experiments like the one at Fermilab Additionally the new more precise basic parameters are presented *Lepton Dipole Moments* B. Lee Roberts, William J. Marciano, 2010 This book provides a self contained description of the measurements of the magnetic dipole moments of the electron and muon along with a discussion of the measurements of the fine structure constant and the theory associated with magnetic and electric dipole moments Also included are the searches for a permanent electric dipole moment of the electron muon neutron and atomic nuclei The related topic of the transition moment for lepton flavor violating processes such as neutrinoless muon or tauon decays and the search for such processes are included as well The papers written by many of the leading authors in this field cover both the experimental and theoretical aspects of these topics Sample Chapter s Chapter 1 Historical Introduction to Electric and Magnetic Moments 367 KB Contents Historical Introduction B L Roberts Electromagnetic Dipole Moments and New Physics A Czarnecki Lepton $g-2$ from 1947 to Present T Kinoshita Analytic QED Calculations of the Anomalous

Magnetic Moment of the Electron S Laporta Measurements of the Electron Magnetic Moment G Gabrielse Determining the Fine Structure Constant G Gabrielse Helium Fine Structure Theory for the Determination of K Pachucki Hadronic Vacuum Polarization and the Lepton Anomalous Magnetic Moments M Davier The Hadronic Light by Light Contribution to a_e J Prades et al General Prescriptions for One loop Contributions to a_e K R Lynch Measurement of the Muon $g - 2$ Value J P Miller et al Muon $g - 2$ and Physics Beyond the Standard Model D StAckinger Probing CP Violation with Electric Dipole Moments M Pospelov The Electric Dipole Moment of the Electron E D Commins Neutron EDM Experiments S K Lamoreaux Nuclear Electric Dipole Moments W C Griffith et al EDM Measurements in Storage Rings B L Roberts et al Models of Lepton Flavor Violation Y Okada Search for the Charged Lepton Flavor Violating Transition Moments I OaAE I OC Y Kuno

Readership Researchers and graduate students in particle physics atomic physics and nuclear physics as well as experts working in the field **Causality Rules** Vladimir Pascalutsa, 2018-07-06 Scattering of light by light is a fundamental process arising at the quantum level through vacuum fluctuations This short book will explain how remarkably enough this quantum process can entirely be described in terms classical quantities This description is derived from general principles such as causality unitarity Lorentz and gauge symmetries The reader will be introduced into a rigorous formulation of these fundamental concepts as well as their physical interpretation and applications 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 *The Anomalous Magnetic Moment of the Muon* Friedrich Jegerlehner, 2018-05-12 This research monograph covers extensively the theory of the muon anomalous magnetic moment and provides estimates of the theoretical uncertainties The muon anomalous magnetic moment is one of the most precisely measured quantities in elementary particle physics and provides one of the most stringent tests of relativistic quantum field theory as a fundamental theoretical framework It allows for an extremely precise check of the standard model of elementary particles and of its limitations This book reviews the present state of knowledge of the anomalous magnetic moment a_μ of the muon Recent experiments at the Brookhaven National Laboratory now reach the unbelievable precision of 0.5 parts per million improving the accuracy of previous $g - 2$ experiments at CERN by a factor of 14 In addition quantum electrodynamics and electroweak and hadronic effects are reviewed Since non perturbative hadronic effects play a key role for the precision test their evaluation is described in detail Perspectives for future improvements of the theoretical and experimental precision are considered The new edition features improved

theoretical predictions to match upcoming experiments like the one at Fermilab Additionally the new more precise basic parameters are presented

Polarization and CP Violation Measurements Michael Prim, 2014-03-28 This thesis describes the thorough analysis of the rare B meson decay into K on data taken by the Belle Collaboration at the B meson factory KEKB over 10 years This reaction is very interesting because it in principle allows the observation of CP violation effects In the Standard Model however no CP violation in this reaction is expected An observation of CP asymmetries thus immediately implies new physics This thesis presents an amplitude analysis of this decay and the search for CP violation in detail and discusses methods to solve related problems The quantification of multivariate dependence and the improvement of numeric evaluation speed of normalization integrals in amplitude analysis In addition it provides an overview of the theory experimental setup blind statistical data analysis and estimation of systematic uncertainties

Quantum Tunneling in Complex Systems Joachim Ankerhold, 2007-02-15 In the last two decades remarkable progress has been made in understanding and describing tunneling processes in complex systems in terms of classical trajectories This book introduces recent concepts and achievements with particular emphasis on a dynamical formulation and relations to specific systems in mesoscopic molecular and atomic physics Advanced instanton techniques e g for decay rates and tunnel splittings are discussed in the first part The second part covers current developments for wave packet tunneling in real time and the third part describes thermodynamics and dynamical approaches for barrier transmission in statistical particularly dissipative systems

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

Precision Electroweak Physics at Electron-Positron Colliders Stefan Roth, 2007 This up to date volume reviews the recent contributions of electron positron colliders to the precision test of the electroweak Standard Model In particular it contains a short summary of the measurements at the Z resonance and gives an overview of the electroweak processes above the Z Subsequently the measurement of the W mass at LEP is discussed in detail The implications for the precision test of the Standard Model are presented giving the status of the global electroweak fit before the startup of Large Hadron Collider The final chapters give an outlook on the electroweak physics at a future linear collider The book also features many illustrations and tables Readers obtain a coherent overview of the results of 20 years of electroweak physics conducted at electron positron colliders

The Anomalous Magnetic Moment of the Muon Fred Jegerlehner, 2008 It seems to be a strange enterprise to attempt write a physics book about a single number It was not my idea to do so but why not In mathematics maybe one would write a book about Certainly the muon s anomalous magnetic moment is a very special number and today reflects almost the full spectrum of effects incorporated in today s Standard Model SM of fundamental interactions including the

electromagnetic the weak and the strong forces The muon $g-2$ how it is also called is a truly fascinating theme both from an experimental and from a theoretical point of view and it has played a crucial role in the development of QED which finally developed into the SM by successive inclusion of the weak and the strong interactions The topic has fascinated a large number of particle physicists last but not least it was always a benchmark for theory as a monitor for effects beyond what was known at the time As an example nobody could believe that a muon is just a heavy version of an electron why should nature repeat itself it hardly can make sense

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

The Flow Equation Approach to Many-Particle Systems Stefan Kehrein, 2007-01-09 Over the past decade the flow equation method has developed into a new versatile theoretical approach to quantum many body physics Its basic concept was conceived independently by Wegner ¹ and by Glazek and Wilson ^{2,3} the derivation of a unitary flow that makes a many particle Hamiltonian increasingly energy diagonal This concept can be seen as a generalization of the conventional scaling approaches in many body physics where some ultraviolet energy scale is lowered down to the experimentally relevant low energy scale ⁴ The main difference between the conventional scaling approach and the flow equation approach can then be traced back to the fact that the flow 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 flow equation approach is therefore that it allows the calculation of dynamical quantities on all energy scales in one unified framework Since its introduction a substantial body of work using the flow equation approach has accumulated It was used to study a number of very different quantum many body problems from dissipative quantum systems to correlated electron physics Recently it also became apparent that the flow equation approach is very suitable for studying quantum many body non equilibrium problems which form one of the current frontiers of modern theoretical physics Therefore the time seems ready to compile the research literature on flow equations in a consistent and accessible way which was my goal in writing this book

Muonium-antimuonium Oscillations in an Extended Minimal Supersymmetric Standard Model Boyang Liu, 2011-02-02 This innovative work investigated two models where the muonium antimuonium oscillation process was mediated by massive Majorana neutrinos and sneutrinos First we modified the Standard Model only by the inclusion of singlet right handed neutrinos and allowing for general renormalizable interactions producing neutrino masses and mixing The see saw mechanism was employed to explain the smallness of the observed neutrino masses A lower bound on the right handed neutrino mass was constructed using the experimental limits set by the nonobservation of the muonium

antimuonium oscillation process Second we modified the Minimal Supersymmetric Standard Model by the inclusion of three right handed neutrino superfields The experimental result of the muonium antimuonium oscillation process generated a lower bound on the ratio of the two Higgs field VEVs This work helps to set up relationships between the experimental result of the muonium antimuonium oscillation process and the model parameters in two specific models Further improvement of the experiment in the future can generate more stringent bounds on the model parameters using the procedure developed by this work *High Energy Physics Index*, 1971 **Inelastic Light Scattering of Semiconductor Nanostructures**

Christian Schüller, 2006-09-14 The field of semiconductor nanostructures is of enormous and still growing research interest On one hand they are already realized in mass products such as high electron mobility field effect transistors and quantum well lasers On the other hand they allow in specially tailored systems the investigation of fundamental properties such as many particle interactions of electrons in reduced dimensions This book bridges the gap between general semiconductor textbooks and research articles *Free Surface Flows under Compensated Gravity Conditions* Michael Dreyer, 2007-04-17

This book considers the behavior of fluids in a low gravity environment e g spacecraft with special emphasis on application in PMD propellant management device systems Since PMD designs are not testable on ground and thus completely rely on analytical or numerical concepts this book treats three different flow problems with analytical numerical and experimental means These problems are linked together by the same set of equations and boundary conditions *Slow Heavy-Particle Induced Electron Emission from Solid Surfaces* Hannspeter Winter, Joachim Burgdörfer, 2007-05-03

The emission of electrons from solid surfaces bombarded by slow neutral and ionized heavy particles atoms molecules is reviewed both theoretically and in the light of recent experimental studies by leading groups in the field The book integrates physics of ion beams surfaces and chemical physics and serves both as a reference work for researchers and a textbook for graduate students

High Energy Polarized Proton Beams Georg Heinz Hoffstaetter, 2009-03-27 This book examines the acceleration and storage of polarized proton beams in cyclic accelerators Basic equations of spin motion are reviewed the invariant spin field is introduced and an adiabatic invariant of spin motion is derived The text presents numerical methods for computing the invariant spin field and displays the results in numerous illustrations This book offers a more lucid view of spin dynamics at high energy than has hitherto been available

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