

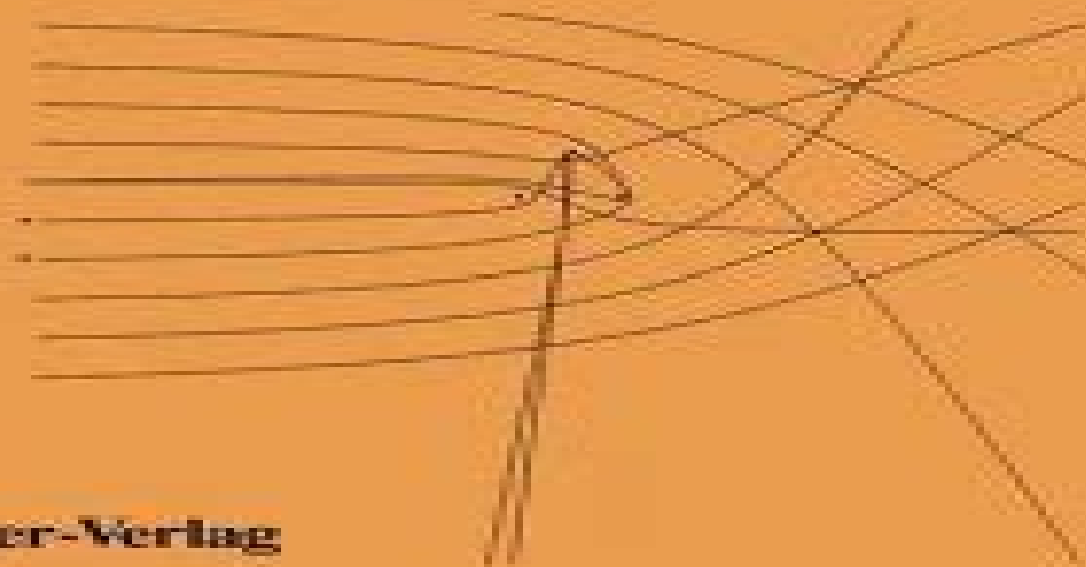
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Classical Planar Scattering by Coulombic Potentials



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Classical Planar Scattering By Coulombic Potentials

Markus Klein, Andreas Knauf



Classical Planar Scattering By Coulombic Potentials:

Classical Planar Scattering by Coulombic Potentials Markus Klein, Andreas Knauf, 1992-12-14 This book treats scattering of a classical particle in a scalar potential with one or more attracting Coulombic singularities For more than two centers this is an important prototype of chaotic scattering which is analysed in depth here using methods of differential geometry and ergodic theory In particular the Cantor set structure of all bounded orbits is described in terms of symbolic dynamics and rigorous energy dependent bounds are derived for quantities such as the topological entropy of the flow the Hausdorff dimension of the bounded orbits and the distribution of time delay This shows that the chaotic behaviour of such systems is universal in the high energy regime Finally the scattering orbits are classified by use of a group Most of the results in the book are new The first mathematically rigorous and comprehensive treatment of chaotic scattering in Coulombic potentials including 13 figures are given The book will be of interest to mathematical physicists mathematicians and physicists

Classical Planar Scattering by Coulombic Potentials Markus Klein, Andreas Knauf, 2008-11-09 Astronomy as well as molecular physics describe non relativistic motion by an interaction of the same form By Newton's respectively by Coulomb's potential But whereas the fundamental laws of motion thus have a simple form the n body problem withstood for $n \geq 2$ all attempts of an explicit solution Indeed the studies of Poincaré at the end of the last century lead to the conclusion that such an explicit solution should be impossible Poincaré himself opened a new epoch for rational mechanics by asking qualitative questions like the one about the stability of the solar system To a large extent his work which was critical for the formation of differential geometry and topology was motivated by problems arising in the analysis of the n body problem 38 p 183 As it turned out even by confining oneself to questions of qualitative nature the general n body problem could not be solved Rather simplified models were treated like planar motion or the restricted 3 body problem where the motion of a test particle did not influence the other two bodies Classical Nonintegrability, Quantum Chaos Andreas Knauf, Yakov G. Sinai, 2012-12-06 Our DMV Seminar on Classical Nonintegrability Quantum Chaos intended to introduce students and beginning researchers to the techniques applied in nonintegrable classical and quantum dynamics Several of these lectures are collected in this volume The basic phenomenon of nonlinear dynamics is mixing in phase space leading to a positive dynamical entropy and a loss of information about the initial state The nonlinear motion in phase space gives rise to a linear action on phase space functions which in the case of iterated maps is given by a so called transfer operator Good mixing rates lead to a spectral gap for this operator Similar to the use made of the Riemann zeta function in the investigation of the prime numbers dynamical zeta functions are now being applied in nonlinear dynamics In Chapter 2 V Baladi first introduces dynamical zeta functions and transfer operators illustrating and motivating these notions with a simple one dimensional dynamical system Then she presents a commented list of useful references helping the newcomer to enter smoothly into this fast developing field of research Chapter 3 on irregular scattering and Chapter 4 on quantum chaos by A Knauf deal with solutions of the Hamilton

and the Schrödinger equation Scattering by a potential force tends to be irregular if three or more scattering centres are present and a typical phenomenon is the occurrence of a Cantor set of bounded orbits The presence of this set influences those scattering orbits which come close

Quantum Gravity, Quantum Cosmology and Lorentzian Geometries Giampiero Esposito, 2009-02-13 This book is aimed at theoretical and mathematical physicists and mathematicians interested in modern gravitational physics I have thus tried to use language familiar to readers working on classical and quantum gravity paying attention both to difficult calculations and to existence theorems and discussing in detail the current literature The first aim of the book is to describe recent work on the problem of boundary conditions in one loop quantum cosmology The motivation of this research was to understand whether supersymmetric theories are one loop finite in the presence of boundaries with application to the boundary value problems occurring in quantum cosmology Indeed higher loop calculations in the absence of boundaries are already available in the literature showing that supergravity is not finite I believe however that one loop calculations in the presence of boundaries are more fundamental in that they provide a more direct check of the inconsistency of supersymmetric quantum cosmology from the perturbative point of view It therefore appears that higher order calculations are not strictly needed if the one loop test already yields negative results Even though the question is not yet settled this research has led to many interesting new applications of areas of theoretical and mathematical physics such as twistor theory in flat space self adjointness theory the generalized Riemann zeta function and the theory of boundary counterterms in super gravity I have also compared in detail my work with results by other authors explaining whenever possible the origin of different results the limits of my work and the unsolved problems

The Geometry of Dynamical Triangulations Jan Ambjørn, Mauro Carfora, Annalisa Marzuoli, 1997-09-18 This book analyses in depth the geometrical aspects of the simplicial quantum gravity model known as the dynamical triangulations approach The authors provide a compact and convenient account suitable both to introduce the non expert reader to the spirit of the subject and to provide a well chosen mathematical route to the heart of the matter for the expert The techniques described in the book are novel and allow points of current interest in the subject of simplicial quantum gravity to be addressed The authors discuss piecewise linear manifolds and give entropy estimates of the number of triangulations of 3 and 4 manifolds Continuum physics is recovered through scaling limits and computer simulation is used to study simplicial quantum gravity extensively The beginner will appreciate the introduction to the field and the expert the comprehensive account of recent results and developments

Multicomponent Transport Algorithms Alexandre Ern, Vincent Giovangigli, 2008-10-10 With the advent of sophisticated computer technology and the development of efficient computational algorithms numerical modeling of complex multicomponent laminar reacting flows has emerged as an increasingly popular and firmly established area of scientific research Progress in this area aims at obtaining better resolved and more accurate solutions of specific technological problems in less computer time Therefore it strongly relies upon the ability of evaluating fundamental

parameters appearing in the physical models Transport properties constitute a typical example of the above characterization Evaluating transport coefficients of dilute polyatomic gas mixtures is often critical in many engineering applications including chemical reactors hypersonic flows combustion phenomena and chemical vapor deposition Using the kinetic theory of dilute polyatomic gas mixtures as a starting point this book offers a systematic development of a mathematical and numerical theory for the evaluation of transport properties in dilute polyatomic gas mixtures The present investigation is not specifically about the kinetic theory of gases for which there are plenty of excellent and thoroughly documented textbooks it is rather geared toward the development of new efficient and general algorithms with which to evaluate transport properties of dilute polyatomic gas mixtures at a reasonable computational cost Algebraic Renormalization Olivier Piguet, Silvio P. Sorella, 2008-09-11 The idea of this book originated from two series of lectures given by us at the Physics Department of the Catholic University of Petr6polis in Brazil Its aim is to present an introduction to the algebraic method in the perturbative renormalization of relativistic quantum field theory Although this approach goes back to the pioneering works of Symanzik in the early 1970s and was systematized by Becchi Rouet and Stora as early as 1972 1974 its full value has not yet been widely appreciated by the practitioners of quantum field theory Becchi Rouet and Stora have however shown it to be a powerful tool for proving the renormalizability of theories with broken symmetries and of gauge theories We have thus found it pertinent to collect in a self contained manner the available information on algebraic renormalization which was previously scattered in many original papers and in a few older review articles Although we have taken care to adapt the level of this book to that of a postgraduate Ph D course more advanced researchers will also certainly find it useful The deeper knowledge of renormalization theory we hope readers will acquire should help them to face the difficult problems of quantum field theory It should also be very helpful to the more phenomenology oriented readers who want to familiarize themselves with the formalism of renormalization theory a necessity in view of the sophisticated perturbative calculations currently being done in particular in the standard model of particle interactions Chaos, Kinetics and Nonlinear Dynamics in Fluids and Plasmas Sadruddin Benkadda, George M. Zaslavsky, 1998-07-16 Over the last few years it has become apparent that fluid turbulence shares many common features with plasma turbulence such as coherent structures and self organization phenomena passive scalar transport and anomalous diffusion This book gathers very high level current papers on these subjects It is intended for scientists and researchers lecturers and graduate students because of the review style of the papers *Algebraic Foundations of Non-Commutative Differential Geometry and Quantum Groups* Ludwig Pittner, 2009-01-29 Quantum groups and quantum algebras as well as non commutative differential geometry are important in mathematics and considered to be useful tools for model building in statistical and quantum physics This book addressing scientists and postgraduates contains a detailed and rather complete presentation of the algebraic framework Introductory chapters deal with background material such as Lie and Hopf superalgebras Lie super bialgebras or formal power series Great care was taken to present a reliable

collection of formulae and to unify the notation making this volume a useful work of reference for mathematicians and mathematical physicists *Chiral Quark Dynamics* Reinhard Alkofer,Hugo Reinhardt,2008-12-04 These notes give an introduction to the description of hadrons i.e mesons and baryons within a quark model based on a chirally invariant quantum field theory Emphasis is put on a didactic approach intended for graduate students with some background on functional integral techniques Starting from QCD a motivation of a specific form of the effective quark interaction is given Functional integral bosonization leads to a theory describing successfully meson properties It possesses solitonic solutions which are identified as baryons Via functional integral techniques a Faddeev equation for baryons describing them as bound states of a diquark and a quark is derived Finally a unification of these two complementary pictures of baryons is proposed

The Recursion Method V.S. Viswanath, Gerhard Müller,2008-10-10 In this monograph the recursion method is presented as a method for the analysis of dynamical properties of quantum and classical many body systems in thermal equilibrium Such properties are probed by many different experimental techniques used in materials science Several representations and formulations of the recursion method are described in detail and documented with numerous examples ranging from elementary illustrations for tutorial purposes to realistic models of interest in current research in the areas of spin dynamics and low dimensional magnetism The performance of the recursion method is calibrated by exact results in a number of benchmark tests and compared with the performance of other calculational techniques The book addresses graduate students and researchers *Fourth Granada Lectures in Computational Physics* Pedro L. Garrido,Joaquin Marro,2013-12-20 The methods developed to deal with the computational aspects of physical problems are useful in an increasing number of situations from chemistry biology and geology to engineering communications and economics In fact computational physics has evolved into a trans disciplinary field now concerned with the creative use of computers in scientific research More over computational methods often help students to develop a deeper understanding of key concepts and enhance their problem solving abilities Therefore computational physics is recognized as having an important educational value and educators face the task of outlining appropriate curricula to take advantage of these unique features This is an important motivation for the publication of the contents of the Seminar on Computational Physics which is held in Granada every two years The seminar aims at bringing together small groups of students and active researchers on different aspects of computational physics It is part of the doctoral programme of the University of Granada The proceedings of the previous editions were published as *II Granada Lectures in Computational Physics* World Scientific Singapore 1993 and *Third Granada Lectures in Computational Physics Lecture Notes in Physics* vol 448 Springer Berlin 1995 by the same editors The present book contains the invited lecture notes and a very brief account of contributions by participants at the 4th Granada Seminar on Computational Physics Granada Spain 9-14 September 1996 **Translation Group and Particle Representations in Quantum Field Theory** Hans-Jürgen Borchers,2008-11-30 At the time I learned quantum field theory it was considered a folk theorem that it is easy

to construct field theories fulfilling either the locality or the spectrum condition The construction of an example for the latter case is particularly easy Take for instance an irreducible representation of the Poincare group with positive energy and as an algebra of observables all compact operators in that representation space This algebra of observables is even an asymptotically Abelian algebra Since it has only a single representation except for multiples of this one it is hardly possible to replace locality in order to obtain a theory with a reasonable physical structure This example shows that it is not sufficient to replace locality by asymptotic Abelianity The construction of a theory fulfilling locality without a positive energy representation was first done by Doplicher, Haag and Singer [DHS] However, modern investigations on the locality ideal in the algebra of test functions started by Alcantara and Yngvason [AY] seem to indicate that this is a general feature this means that most of the algebras of observables fulfilling the locality condition will not have representations that also fulfil the spectrum condition This discussion shows that quantum field theory becomes a subject of interest only if both conditions are satisfied at the same time

Introduction to Photon Communication Cherif Bendjaballah, 2008-09-11 In recent years progress in the generation of squeezed states of light mainly characterized by a reduced noise property has stimulated important work in relation to their potential use to improve the sensitivity of optical communication systems These notes are devoted to the detection and information processing of optical signals at very low levels of power A survey of recent developments from the quantum and classical points of view is presented Ultimate limits of performance under the criteria of detection and information are established Some of the results are detailed and may be utilized for the design of practical systems of communication using present technology The book addresses physicists and engineers interested in present and future developments in optical communications

Quantum Ising Phases and Transitions in Transverse Ising Models Bikas K. Chakrabarti, Amit Dutta, Parongama Sen, 2008-12-22 Investigations into the zero temperature phases in various frustrated and random Ising models in a transverse or tunnelling field have caught attention very recently in the context of quantum magnetisation of glasses and other frustrated systems This book gives a detailed discussion of the various theoretical techniques developed for the study of transverse Ising models and of the results of these studies with regular and random frustration dilution randomness etc Recent developments in the studies on their quantum relaxational dynamics such as in quantum hysteresis are also treated The detailed presentation of original results and the reviews given here are expected to inspire further research in the exciting field of quantum many body systems with randomness and frustration

X-Ray Spectroscopy in Astrophysics Jan van Paradijs, Johan A.M. Bleeker, 1999-02-17 This volume contains a comprehensive treatment of X ray spectroscopy as applied in astrophysics It is presented in the form of extensive notes of lectures given by seven distinguished scientists at the Tenth Summer School of the European Astrophysics Doctoral Network The subjects covered are basic line and continuum radiation processes in X ray and gamma ray astronomy atomic physics of collision and radiation dominated plasmas X ray spectroscopic observations with ASCA and BeppoSAX future X ray spectroscopy missions

X ray optics and X ray spectroscopy instrumentation The book which will appeal to both researchers and graduate students is timely in view of the scheduled launches of the big X ray observatories AXAF and XMM in 1999

Scattering Theory

Harald Friedrich, 2015-11-20 This corrected and updated second edition of Scattering Theory presents a concise and modern coverage of the subject In the present treatment special attention is given to the role played by the long range behaviour of the projectile target interaction and a theory is developed which is well suited to describe near threshold bound and continuum states in realistic binary systems such as diatomic molecules or molecular ions It is motivated by the fact that experimental advances have shifted and broadened the scope of applications where concepts from scattering theory are used e g to the field of ultracold atoms and molecules which has been experiencing enormous growth in recent years largely triggered by the successful realization of Bose Einstein condensates of dilute atomic gases in 1995 The book contains sections on special topics such as near threshold quantization quantum reflection Feshbach resonances and the quantum description of scattering in two dimensions The level of abstraction is kept as low as at all possible and deeper questions related to the mathematical foundations of scattering theory are passed by It should be understandable for anyone with a basic knowledge of nonrelativistic quantum mechanics The book is intended for advanced students and researchers and it is hoped that it will be useful for theorists and experimentalists alike

Oscillator Representation in Quantum Physics

M. Dineykan, G.V. Efimov, G. Ganbold, S.N. Nedelko, 2008-12-16 The investigation of most problems of quantum physics leads to the solution of the Schrodinger equation with an appropriate interaction Hamiltonian or potential However the exact solutions are known for rather a restricted set of potentials so that the standard eternal problem that faces us is to find the best effective approximation to the exact solution of the Schrodinger equation under consideration In the most general form this problem can be formulated as follows Let a total Hamiltonian H describing a relativistic quantum field theory or a nonrelativistic quantum mechanics system be given Our problem is to solve the Schrodinger equation $H|\psi\rangle = E|\psi\rangle$ i e to find the energy spectrum E_n and the proper wave functions ψ_n including the ground state or vacuum ψ_0 The main idea of any approximation technique is to find a decomposition in such a way that H_0 describes our physical system in the closest to H manner and the Schrodinger equation $H_0|\psi_0\rangle = E_0|\psi_0\rangle$ can be solved exactly The interaction Hamiltonian H_I is supposed to give small corrections to the zero approximation which can be calculated In this book we shall consider the problem of a strong coupling regime in quantum field theory calculations of path or functional integrals over the Gaussian measure and spectral problems in quantum mechanics Let us consider these problems briefly

Low Magnetic Fields in

Anisotropic Superconductors Allan J. Greer, William J. Kossler, 2008-12-03 Superconductors have been known about since the turn of the century Recently there has been a renewed interest with the discovery of the new high T_c materials since 1986 1 These compounds become superconducting at much warmer temperatures than any previously known In fact many of them superconduct at temperatures above the boiling point of liquid nitrogen making the observation of the transition both

accessible and inexpensive It was obvious immediately that these materials could have a tremendous technological impact or lead to further materials with even higher transitions For this reason there has been an intense effort by scientists in both academia and industry to study these materials The scientific and industrial communities hope to learn what makes these materials work For learning how these materials work not only increases mankind's overall knowledge of his world but could make some person or company quite successful if the information were used and developed correctly

Field Theoretical Tools for Polymer and Particle Physics Hildegard Meyer-Ortmanns, Andreas Klümper, 1998-03-18 The book is written for advanced graduate students The topics have been selected to present methods and models that have applications in both particle physics and polymer physics The lectures may serve as a guide through more recent research activities and illustrate the applicability of joint methods in different contexts The book deals with analytic tools e.g. random walk models polymer expansion numerical tools e.g. Langevin dynamics and common models the three dimensional Gross Neveu Model

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