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Pattern Formation in Granular Materials



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Ulrich F. Katz



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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 Applied Asymptotic Expansions in Momenta and Masses Vladimir A. Smirnov, 2003-07-01 The surgeon they sent was second grade fresh said the barman Really what nonsense Why nonsense Second grade fresh that s what I call nonsense There s only one degree of freshness the first and it s the last M A Bulgakov The Master and Margarita The goal of this book is to describe in detail how Feynman integrals can be expanded in suitable parameters when various momenta or masses are small or large In a narrow sense this problem is connected with practical calculations In a situation where a given Feynman integral depends on parameters of very different scales a natural idea is to replace it by a sufficiently large number of terms of an expansion of it in ratios of small and large scales It will be explained how this problem of expansion can be systematically solved by formulating universal prescriptions that express terms of the expansion by using the original Feynman integral with its integrand expanded into a Taylor series in appropriate momenta and masses It turns out that knowledge of the structure of the asymptotic expansion at the diagrammatic level is a key point in understanding how to perform expansions at the operator level There are various examples of these expansions the operator product expansion the large mass expansion Heavy Quark Effective Theory Non Relativistic QCD etc Each of them serves as a realization of the factorization of contributions of different scales **Semiconductor Cavity Quantum Electrodynamics** Y. Yamamoto, F. Tassone, H. Cao, 2003-07-01 This monograph is the first to give a comprehensive account of the theory of semiconductor cavity quantum electrodynamics for such systems in the weak coupling and strong coupling regimes It presents the important concepts together with relevant recent experimental results **Symmetries in Intermediate and High Energy Physics** A. Faessler, T.S. Kosmas, G.K. Leontaris, 2000-03-15 This book contains comprehensive reviews of modern topics in nuclear physics particle physics astrophysics and cosmology Special emphasis is placed on the role of several symmetries in physics at intermediate and high energies and on neutrino physics with its implications in nuclear astrophysics and cosmology Many applications of the theories and experiments are included along with interesting information on recent developments with respect to current problems in modern physics Thus it will be especially useful to new scientists and graduate students **Spinning Particles - Semiclassics and Spectral Statistics** Stefan Keppeler, 2003-09-11 The main theme of this book is semiclassical methods for systems with spin in particular methods involving trace formulae and torus quantisation and their applications in the theory of quantum chaos e g the characterisation of spectral correlations The theoretical tools developed here not only have immediate applications in the theory of quantum chaos which is the second focus of the book but also in atomic and mesoscopic physics Thus the intuitive understanding of semiclassical spin dynamics will also be helpful in emerging subjects like spintronics and quantum computation **High-Tc Superconductors for Magnet and**

Energy Technology Beate Lehnendorff, 2003-07-01 Since the discovery of high temperature superconductors the scientific community has been very active in research on material and system development as well as on the basic understanding of the mechanism of superconductivity at high transition temperatures Industrial groups joined in very soon as with these new materials the prospects for commercial application of superconductivity seemed to be more promising than ever Materials processing was divided into film deposition and bulk preparation techniques the latter including conductor fabrication and melt growth of monolithic samples as well Because of the high impact of possible applications in energy technology wire and tape fabrication of the BSCCO superconductors is one of the most important fields in addition to thin film technology for mobile communication Only since processes like IBAD and RABiTSTM were invented have film deposition techniques also become important for energy technology In order to produce suitable conductors with material properties which meet the challenge imposed by energy technology detailed understanding of the phase formation and physical properties of the high temperature superconductors is necessary The goal of this book is on one hand to provide the basic information on phase formation and physical properties and to give a short overview of the state of the art in conductor preparation and characterization On the other hand it contains the author's own results in the field of preparation and characterization **Compton**

Scattering Frank Wissmann, 2003-12-03 A comprehensive summary of experiments on Compton scattering from the proton and neutron performed at the electron accelerator MAMI The experiments cover a photon energy range from 30 MeV to 500 MeV The reader is introduced to the theoretical concepts of Compton scattering followed by a description of the experiments on the proton their analysis and results *Spatio-Temporal Dynamics and Quantum Fluctuations in Semiconductor Lasers*

Edeltraud Gehrig, Ortwin Hess, 2003-09-22 Presents fundamental theories and simulations of the spatio-temporal dynamics and quantum fluctuations in semiconductor lasers The dynamic interplay of light and matter is theoretically described by taking into account microscopic carrier dynamics spatially dependent light field propagation and the influence of spontaneous emission and noise **Deep Inelastic Positron-Proton Scattering in the High-Momentum-Transfer**

Regime of HERA Ulrich F. Katz, 2000-09-04 About three decades after the first experiments on deep inelastic lepton hadron scattering began to investigate the structure of hadrons the history of this fruitful field of particle physics continues in the broad spectrum of research performed at the electron and positron proton collider HERA at DESY where the multipurpose detectors ZEUS and H1 access ep scattering at a center of mass energy of 300 GeV and explore as yet uncharted kinematic realms of deep inelastic scattering After the first years of data taking at HERA each of the experiments has collected a total of roughly 40 pb¹ of e p data yielding sensitivity to deep inelastic e p interactions at high four momentum transfers Q² where typical cross sections drop into the subpicobarn regime This kinematic domain is characterized by electroweak unification manifesting itself most markedly in the neutral and charged current cross sections which approach an equal order of magnitude as Q² rises above the square of the W and Z masses Consequently HERA allows for the first time studies of

both types of processes simultaneously with the same initial state conditions and in the same detector and thus we can investigate the interplay of electroweak and strong forces governing the respective cross sections

Light Emitting Silicon for Microphotonics Stefano Ossicini, Lorenzo Pavesi, Francesco Priolo, 2003-11-12 A fascinating insight into the state of the art in silicon microphotonics and on what we can expect in the near future The book presents an overview of the current understanding of getting light from silicon It concentrates mainly on low dimensional silicon structures like quantum dots wires and wells but covers also alternative approaches like porous silicon and the doping of silicon with rare earths The emphasis is on the experimental and theoretical achievements concerning the optoelectronic properties of confined silicon structures obtained during recent years Silicon based photonic crystals are in particular considered An in depth discussion of the route towards a silicon laser is presented

X-Ray Diffuse Scattering from Self-Organized Mesoscopic Semiconductor Structures Martin Schmidbauer, 2004-01-09 This monograph represents a critical survey of the outstanding capabilities of X ray diffuse scattering for the structural characterization of mesoscopic material systems The mesoscopic regime comprises length scales ranging from a few up to some hundreds of nanometers It is of particular relevance at semiconductor layer systems where for example interface roughness or low dimensional objects such as quantum dots and quantum wires have attracted much interest An extensive overview of the present state of the art theory of X ray diffuse scattering at mesoscopic structures is given followed by a valuable description of various experimental techniques Selected up to date examples are discussed The aim of the present book is to combine aspects of self organized growth of mesoscopic structures with corresponding X ray diffuse scattering experiments

Ising-type Antiferromagnets Christian Binek, 2003-09-22 Selected modern aspects of artificially layered structures and bulk materials involving antiferromagnetic long range order are the main themes of this book Special emphasis is laid on the prototypical behavior of Ising type model systems They play a crucial role in the field of statistical physics and in addition contribute to the basic understanding of the exchange bias phenomenon in MBE grown magnetic heterosystems Throughout the book particular attention is given to the interplay between experimental results and their theoretical description ranging from the famous Lee Yang theory of phase transitions to novel mechanisms of exchange bias

Electronic Quantum Transport in Mesoscopic Semiconductor Structures Thomas Ihn, 2004-09-09 The physics of semiconductors has seen an enormous evolution within the last fifty years Countless achievements have been made in scientific research and device applications have revolutionized everyday life We have learned how to customize materials in order to tailor their optical as well as electronic properties The ongoing trend toward device miniaturization has been the driving force on the application side and it has fertilized fundamental research Nowadays advanced processing techniques allow the fabrication of sub micron semiconductor structures in many university research laboratories At the same time experiments down to millikelvin temperatures allow researchers to anticipate the observation of quantum phenomena so far hidden at room temperature by the large thermal energy and strong dephasing The field of

mesoscopic physics deals with systems under experimental conditions where several quantum length scales for electrons such as system size and phase coherence length or phase coherence length and elastic mean free path are comparable. Intense research over the last twenty years has revealed an enormous richness of quantum effects in mesoscopic semiconductor physics which is typically characterized by an interplay of quantum interference and many-body interactions. The most famous phenomena are probably the integer and fractional quantum Hall effects, the quantization of conductance through a quantum point contact, the Aharonov-Bohm effect and single electron charging of quantum dots.

Electroweak Symmetry Breaking Wolfgang Kilian, 2003-09-02 The systematic bottom up approach provides the appropriate framework for interpreting measurements that will be performed to better understand the physics of mass generation in the universe. No knowledge of quantum field theory is required other than familiarity with effective Lagrangians and Feynmann diagrams.

Uncovering CP Violation Konrad Kleinknecht, 2003-10-23 Description of experiments that uncovered the nature of CP violation and the phenomenology describing CP violation. The author Konrad Kleinknecht received the Leibniz award of the Deutsche Forschungsgemeinschaft 1990 and the Gentner-Kastler prize and medal of SFP and DPG 2001.

Dissipative Quantum Chaos and Decoherence Daniel Braun, 2003-07-01 Dissipative Quantum Chaos and Decoherence provides an overview of the state of the art of research in this exciting field. The main emphasis is on the development of a semiclassical formalism that allows one to incorporate the effect of dissipation and decoherence in a precise yet tractable way into the quantum mechanics of classically chaotic systems. The formalism is employed to reveal how the spectrum of the quantum mechanical propagator of a density matrix is determined by the spectrum of the corresponding classical propagator of phase space density. Simple quantum-classical hybrid formulae for experimentally relevant correlation functions and time-dependent expectation values of observables are derived. The problem of decoherence is treated in detail and highly unexpected cases of very slow decoherence are revealed with important consequences for the long debated realizability of Schrödinger cat states as well as for the construction of quantum computers.

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