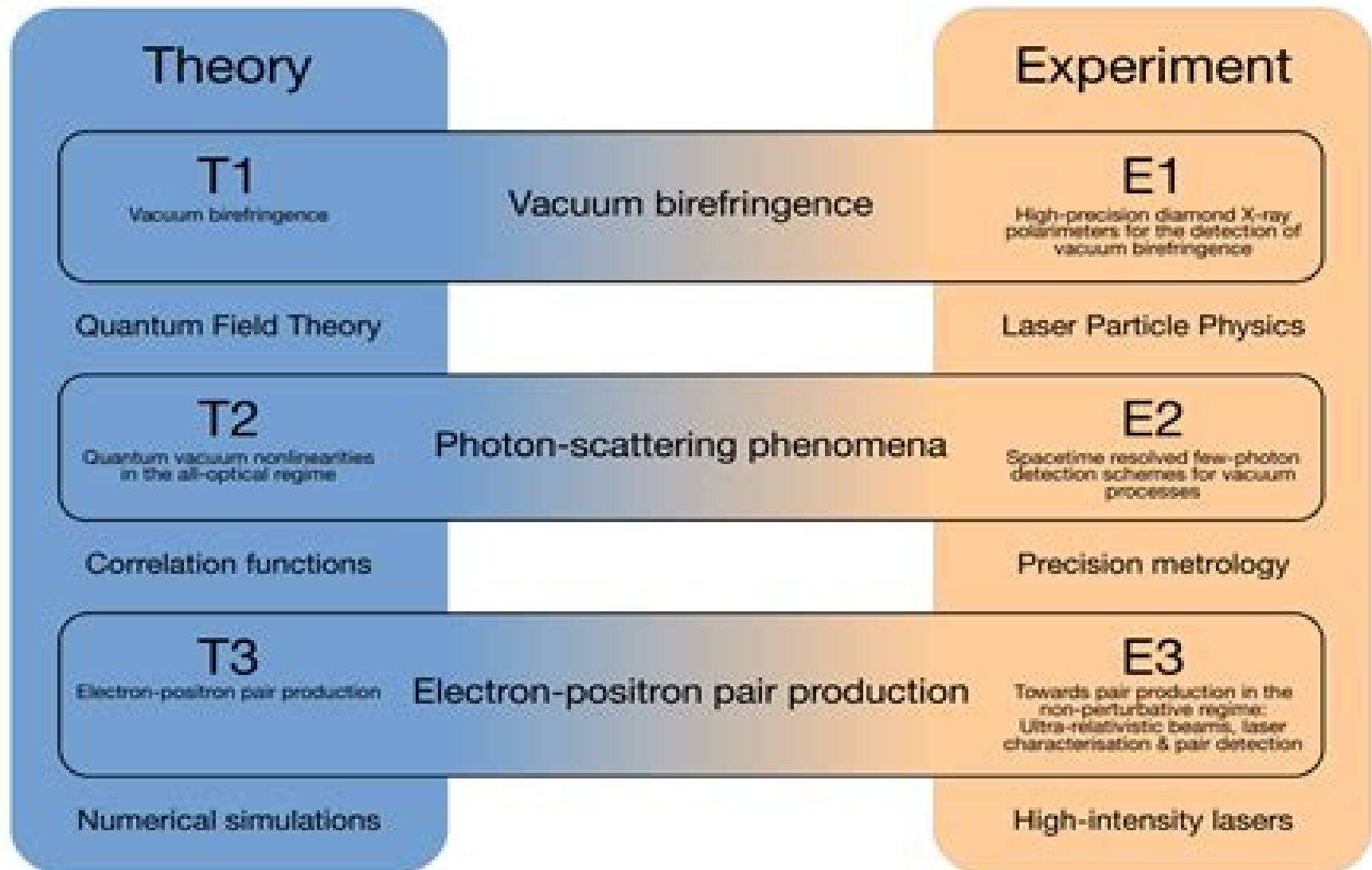


Probing the Quantum Vacuum at the High-Intensity Frontier



Probing The Quantum Vacuum

B Lingard



Probing The Quantum Vacuum:

Probing the Quantum Vacuum Walter Dittrich, Holger Gies, 2000-07-14 This book is devoted to an investigation of the vacuum of quantum electrodynamics QED relying on the perturbative effective action approach If the vacuum is probed with external perturbations the response of the system can be analyzed after averaging over the high energy degrees of freedom This results in an effective description of the properties of the vacuum which are comparable to the properties of a classical medium We concentrate primarily on the physics of slowly varying fields or soft photons by integrating out the high energy degrees of freedom i e the electrons employing Schwinger's proper time method We derive a new representation of the one loop photon polarization tensor coupling to all orders to an arbitrary constant electromagnetic field fully maintaining the dependence on the complete set of invariants On the basis of effective Lagrangians we derive the light cone condition for low frequency photons propagating in strong fields Our formalism can be extended to various external perturbations such as temperature and Casimir situations We give a proof of the unified formula for low energy phenomena that describes the refractive indices of various perturbed quantum vacua In the high energy domain we observe similarities between a vacuum with a superstrong magnetic field and a magnetized plasma The question of measurability of the various effects is addressed a violation of causality is not found

Probing the Quantum Vacuum Walter Dittrich, Holger Gies, 2014-01-15

Probing the Quantum Vacuum Using Nonlinear Crystals: a Macroscopic Quantum Electrodynamics

Perspective Frieder Lindel, 2020 Abstract Vacuum fluctuations of the electromagnetic field associated with the ground state exist as a consequence of Heisenberg's uncertainty principle These fluctuating fields manifest themselves indirectly through their influence on matter where they may be regarded as responsible for important processes in nature e g spontaneous emission the Lamb shift Casimir and Casimir Polder forces More recently an alternative route to observing the quantum vacuum has been developed in electro optic sampling experiments they are based on the output statistics of ultrashort laser pulses sent through nonlinear crystals whose optical properties are influenced by the vacuum fluctuations In this thesis we develop a theoretical framework based on macroscopic quantum electrodynamics for describing the propagation of quantised electric fields through a nonlinear crystal allowing for general environments We apply this framework to the setup of electro optic sampling finding a description of the experiments which extends previous theoretical results beyond the paraxial approximation and by allowing for general absorptive and dispersive environments via the classical Green's tensor We show that the predictions of our theory for electro optic sampling experiments in bulk media are in good agreement with the experimental data recovering previous theoretical findings in certain limits and how these experiments can be used to individually measure longitudinal or transverse fluctuating fields We argue that by modifying the experimental setup one can observe different characteristics of the environment assisted quantum vacuum such as changes induced by metallic plates and cavities or surface resonances of these objects This makes it possible to experimentally test the theoretical predictions

for the medium assisted ground state of quantum electrodynamics and thereby forging the missing link between geometry induced vacuum effects such as e g the Casimir effect and electro optic sampling of the vacuum Deutsche Nationalbibliographie und Bibliographie der im Ausland erschienenen deutschsprachigen Veröffentlichungen ,2000

Experiencing The Unconventional: Science In Art Andrew Adamatzky,Theresa Schubert,2015-02-09 This book introduces art projects that resulted from unconventional explorations curious experiments and their creative translations into sensorial experiences Using electronic and digital art bioart sculpture and installations sound and performance the authors are removing boundaries between natural and artificial real and imaginary science and culture The invited artists and researchers come from cutting edge fields of art production that focuses on creating aesthetic experiences and performative situations Their artworks create a spatial aesthetic experience for visitors by manifesting themselves in physical space Experiencing the Unconventional is a unique selection of works by artists not based on formal similarities but on investigative practices It offers in depth insights and first hand working experiences into current production of art works at the edge of art science and technology **Laser Physics** ,2007 *Advances in FDTD Computational Electrodynamics* Allen Taflove,Ardavan Oskooi,Steven G. Johnson,2013 Advances in photonics and nanotechnology have the potential to revolutionize humanity s ability to communicate and compute This book helps readers understand the developments in computational modeling of nanoscale optical microscopy and microchip lithography as well as nanoscale plasmonics and biophotonics *Advances in the Casimir Effect* Michael Bordag,Galina Leonidovna Klimchitskaya,Umar Mohideen,Vladimir Mikhaylovich Mostepanenko,2009-05-28 The subject of this book is the Casimir effect a manifestation of zero point oscillations of the quantum vacuum resulting in forces acting between closely spaced bodies For the benefit of the reader the book assembles field theoretical foundations of this phenomenon applications of the general theory to real materials and a comprehensive description of all recently performed measurements of the Casimir force with a comparison between experiment and theory There is an urgent need for a book of this type given the increase of interest in forces originating from the quantum vacuum Numerous new results have been obtained in the last few years which are not reflected in previous books on the subject but which are very promising for fundamental science and nanotechnology The book is a unique source of information presenting a critical assessment of all the main results and approaches from hundreds of journal papers It also outlines new ideas which have not yet been universally accepted but which are finding increasing support from experiment

American Book Publishing Record R.R. Bowker Company,1978 **Nanotechnology: Concepts, Methodologies, Tools, and Applications** Management Association, Information Resources,2014-02-28 Over the past few decades devices and technologies have been significantly miniaturized from one generation to the next providing far more potential in a much smaller package The smallest of these recently developed tools are miniscule enough to be invisible to the naked eye Nanotechnology Concepts Methodologies Tools and Applications describes some of the latest advances in microscopic

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Mittheilungen aus dem Gebeite des Seewesens ,1884 Jahres-Bericht über die Leistungen der chemischen Technologie Johannes Rudolf Wagner,1873 *Casimir Physics* Diego Dalvit,Peter Milonni,David Roberts,Felipe da Rosa,2011-06-30

Casimir effects serve as primary examples of directly observable manifestations of the nontrivial properties of quantum fields and as such are attracting increasing interest from quantum field theorists particle physicists and cosmologists Furthermore though very weak except at short distances Casimir forces are universal in the sense that all material objects are subject to them They are thus also an increasingly important part of the physics of atom surface interactions while in nanotechnology they are being investigated not only as contributors to stiction but also as potential mechanisms for actuating micro electromechanical devices While the field of Casimir physics is expanding rapidly it has reached a level of maturity in some important respects on the experimental side where most sources of imprecision in force measurements have been identified as well as on the theoretical side where for example semi analytical and numerical methods for the computation of Casimir forces between bodies of arbitrary shape have been successfully developed This book is then a timely and comprehensive guide to the essence of Casimir and Casimir Polder physics that will have lasting value serving the dual purpose of an introduction and reference to the field While this volume is not intended to be a unified textbook but rather a collection of largely independent chapters written by prominent experts in the field the detailed and carefully written articles adopt a style that should appeal to non specialist researchers in the field as well as to a broader audience of graduate students

Jahresbericht uber die Fortschritte der chemischen Technologie fur Fabrikanten Hutten und Forsleute, Cameralisten, Chemiker und Pharmaceuten, mit besonderer Berucksichtigung der Gewerbestatistik ,1873 **The Worldwide List of**

Alternative Theories and Critics Jean de Climont,2020-11-01 This Worldwide List of Alternative Theories and Critics only available in english language includes scientists involved in scientific fields The 2023 issue of this directory includes the scientists found in the Internet The scientists of the directory are only those involved in physics natural philosophy The list includes 9700 names of scientists doctors or diplome engineers for more than 70% Their position is shortly presented together with their proposed alternative theory when applicable There are nearly 3500 authors of such theories all amazingly very different from one another The main categories of theories are presented in an other book of Jean de Climont **THE ALTERNATIVE THEORIES** **Jahresbericht über die Leistungen der chemischen Technologie** ,1873

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