Record Nr. UNINA9910780886303321 Proceedings of the Ninth Conference on Quantum Field Theory Under **Titolo** the Influence of External Conditions (QFEXT09) [[electronic resource]]: devoted to the Centenary of H.B.G. Casimir, University of Oklahoma, USA, 21-25 September 2009 / / editors, Kimball A. Milton, Michael Bordag Hackensack, N.J., : World Scientific, c2010 Pubbl/distr/stampa **ISBN** 1-283-14402-6 9786613144027 981-4289-93-0 1 online resource (500 p.) Descrizione fisica Altri autori (Persone) CasimirH. B. G <1909-2000.> (Hendrik Brugt Gerhard) MiltonK. A BordagMichael <1952-> Disciplina 530.143 Soggetti Quantum field theory Casimir effect Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Includes bibliographical references. Nota di bibliografia Nota di contenuto CONTENTS: Calculations of Casimir Forces: Measurement of Casimir Forces: Thermal Casimir Effects: Casimir Forces for Real Materials: Casimir-Polder Forces; Dynamical Casimir Effect; Critical Casimir Forces: Gravitational Effects: Heat Kernels and Spectral Determinants: Energy Densities; Solitons and Nanotubes; Schwinger Effect and Quantum Electrodynamics; Field Theory in Backgrounds; Preface; Organizing Committee: Schedule of Talks: Acknowledgments QFEXT is the leading international conference held every two years, Sommario/riassunto highlighting progress in quantum vacuum energy phenomena, the Casimir effect, and related topics, both experimentally and theoretically. This proceedings volume, featuring contributions from many of the key players in the field, serves as a definitive source of information on this field, which is playing an increasingly important role in nanotechnology and in understanding fundamental issues in physics such as renormalization and in the search for new physics such

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