

# Renormalization of the Regularized Relativistic Electron-Positron Field



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## RENORMALIZATION OF THE REGULARIZED RELATIVISTIC ELECTRON-POSITRON FIELD



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GRIN Verlag. Paperback. Book Condition: New. Paperback. 68 pages. Dimensions: 8.0in. x 5.8in. x 0.1in. Bachelor Thesis from the year 2011 in the subject Mathematics - Miscellaneous, grade: 1, 0, Technical University of Munich, language: English, abstract: This thesis is motivated by questions arising in the field of Mathematical Quantum Electrodynamics, the attempt of a proper mathematical description of Quantum Electrodynamics (QED). QED is the relativistic quantum field theory of electrodynamics, which unifies Quantum Mechanics and Special Relativity in a consistent manner. From the mathematical point of view, QED is an abelian gauge theory with the symmetry group  $U(1)$  (phase factors) and the gauge field mediating the interaction between the charged spin-1/2 fields is the electromagnetic field. Aim of this thesis is the renormalization of the regularized relativistic electron positron field together with a Coulomb interaction. The idea of the renormalization procedure is to compare the normal-ordered Hamiltonian with the original one. Choosing a conventional normal ordering, the change in Hamiltonian is given by a quadratic term. The choice of a suitable normal ordering amounts in a non-perturbative redefinition of the electronpositron states. This allows for the interpretation of change in the Hamiltonian as a certain renormalization. The proper interpretation of this renormalization and the various implications are discussed at the end. This item ships from multiple locations. Your book may arrive from Roseburg,OR, La Vergne,TN. Paperback.



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