

Review

Approximate Calculation of Functional Integrals Generated by Nonrelativistic and Relativistic Hamiltonians

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Abstract: The discussion revolves around the most recent outcomes in the realm of approximating functional integrals through calculations. Review of works devoted to the application of functional integrals in quantum mechanics and quantum field theory, nuclear physics and in other areas is presented. Methods obtained by the authors for approximate calculation of functional integrals generated by nonrelativistic Hamiltonians are given. One of the methods is based on the expansion in eigenfunctions of the Hamiltonian. In an alternate approach, the functional integrals are tackled using the semiclassical approximation. Methods for approximate evaluation of functional integrals generated by relativistic Hamiltonians are presented. These are the methods using functional polynomial approximation (analogue of formulas of a given degree of accuracy) and methods based on the expansion in eigenfunctions of the Hamiltonian, generating a functional integral.

Keywords: functional integrals; nonrelativistic and relativistic Hamiltonians; Schrödinger-type equation; methods for approximate calculation of integrals



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1. Introduction

Functional integrals are widely used in quantum mechanics and quantum field theory nuclear physics and in many other areas (see [1–11] and references therein). In particular, functional integrals are used in the description of quantum mechanical systems of particles with different Hamiltonians.

The wide application of functional integrals stimulates the development of methods for their approximate calculation. Significant progress has been made over the past half century in the field of approximate calculation of functional integrals.

The motivation for writing this article was the desire to review well-known existing methods and methods obtained by the authors in recent years for calculating functional integrals.

There are various methods for computing different types of functional integrals. Since the “Feynman measure” is not a measure in the mathematically strict sense, many different approaches to Feynman integrals have arisen, substantiating their construction and offering appropriate methods for their approximate calculation [12–15].

Among the methods used, we note the Monte Carlo method for the approximate calculation of functional integrals [16–18].

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