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Functional integration - Wikipedia

The path integral formulation of quantum mechanics is a description of

quantum theory that generalizes the action principle of classical mechanics. It replaces the classical notion of a single, unique classical trajectory for a system with a sum, or functional integral , over an infinity of quantum-mechanically possible trajectories to compute a quantum amplitude .

**[1902.08652] Quantum Field Theory and Functional Integrals
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3 Answers. Needless to say that a general mathematically rigorous definition of functional integrals is a well-known open problem in**

mathematics. For instance, one may try to construct the functional integral as an appropriate continuum limit of a discretized space-time M , as Michael Brown suggests in a comment.

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**quantum field theory - Why is the functional integral of a ...
Functional integrals arise in probability, in the study of partial differential equations, and in the path integral approach to the quantum mechanics of particles and fields. In an ordinary integral there is a function to be integrated (the integrand) and a region of space over which to integrate the function (the domain of integration).**

**J. Glimm & A. Jaffe Quantum Physics A Functional Integral ...
Dirac introduced the action principle in quantum physics [2, 3], and Feynman, in his doctoral thesis [4] “The Principle of Least Action in**

Quantum Physics”, introduced path integrals driven by the classical action functional, integral of the lagrangian.

John Klauder - Department of Physics at UF

Written with great care and containing many highly illuminating examples, this classic book is highly recommended to anyone interested in applications of functional integration to quantum physics. It can also serve as a textbook for a course in functional integration.

Quantum Physics - A Functional Integral Point of View | J ...

We describe Feynman's path integral approach to quantum mechanics and quantum field theory from a functional integral point of view, where the main focus lies in Euclidean field theory. The notion of Gaussian measure and the construction of the Wiener measure are covered.

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Functional Integration and Quantum Physics, Volume 86 ...

**Quantum field theory (QFT) is a subject which has evolved considerably
over the years and continues to do so. From its beginnings in elementary
particle physics it has found applications in many other branches of
science, in particular condensed matter physics but also as far afield as
biology and economics.**

Quantum Physics - A Functional Integral Point of View ...

**The unity of mathematical structure for problems of diverse origin in
physics should be no surprise. For classical Quantum Physics - A**

Functional Integral Point of View | J. Glimm | Springer

A Legacy - University of Arizona

Quantum Physics: A Functional Integral Point Of View By James Glimm; Arthur Jaffe The Internet has provided us with an opportunity to share all kinds of information, including music,

Quantum Physics: A Functional Integral Point of View ...

A Functional Integral Point of View. Usually dispatched within 3 to 5 business days. Describes fifteen years' work which has led to the construction of solutions to non-linear relativistic local field equations in 2 and 3 space-time dimensions. Gives proof of the existence theorem in 2 dimensions and describes many properties of the solutions.

[1703.04314] Functional integrals and inequivalent ...

Functional integration is a tool useful to study general diffusion processes, quantum mechanics, and quantum field theory, among other applications. The mathematics of such integrals can be studied largely independently of specific applications, and this approach minimizes the prerequisites needed to follow the material.

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Path integral formulation - Wikipedia

Abstract: We discuss canonical transformations in Quantum Field Theory in the framework of the functional-integral approach. In contrast with ordinary Quantum Mechanics, canonical transformations in Quantum Field Theory are mathematically more subtle due to the existence of unitarily inequivalent representations of canonical commutation relations.

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