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And Path Integrals

The Path Integral approach to Quantum Mechanics is pretty snazzy, and it's neat to see how Feynman comes up with the Schrodinger equation, and the commutation relations, and all that via the path integral method.

**Quantum Mechanics
and Path Integrals:
Richard P. Feynman**

...

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The opening chapters explore the fundamental concepts of quantum mechanics and introduce path integrals. Subsequent chapters cover more advanced topics, including the perturbation method, quantum electrodynamics, and the relation of path integrals to statistical mechanics.

Quantum Mechanics

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The path integral formulation is a description in quantum mechanics 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

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compute a quantum
amplitude.

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**Path integral
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electrodynamics, and
the relation of path
integrals to statistical
mechanics.

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**Quantum Mechanics
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In quantum mechanics,
the amplitude to go
from a to b is the sum
of amplitudes for each
interfering alternative
path. The amplitude
for a given path, $e^{iS/\hbar}$,
has a phase propor-
tional to the action. If

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the action is very large

compared to \hbar ,

neighboring paths such

as 3 and 4 have

slightly different

actions.

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Richard P. Feynman**

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Feynman; A R Hibbs]

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Stochastic Processes
and Quantum

Mechanics presents the
fundamentals of path
integrals, both the
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type, and their many
applications in physics.
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the book deals with

systems possessing a

infinite number of

degrees in freedom.

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Later, in 1940's, it was

reintroduced by

Feynman as an

alternative to

operatorial methods to

compute transition

amplitudes in quantum

mechanics: Feynman

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path integrals use a

lagrangian formulation

instead of a

hamiltonian one and

can be seen as a

quantum-mechanical

generalization of the

least-action principle
(see e.g.).

Quantum Mechanical Path Integrals: from Transition ...

Path Integrals in

Quantum Mechanics 5

points are (x_1, t_1) ,

..., (x_{N-1}, t_{N-1}) . We do

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this with the hope that
in the limit as $N \rightarrow \infty$,
this models a
continuous path.³ As
 $V(x) = 0$ for a free
particle, the action
depends only on the
velocity, which
between any t_i and
 $t_{i+1} = t_i + \Delta t$ is a
constant. We denote
the action between t_i
and t_{i+1} by $S_i = \int_{t_i}^{t_{i+1}} \mathcal{L} dt$

Path Integrals in Quantum Mechanics

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- MIT

Abstract. A new extension of a fractality concept in quantum physics has been developed. The path integrals over the Lévy paths are defined and fractional quantum and statistical mechanics have been developed via new fractional path integrals approach. A fractional generalization of the Schrödinger equation has been found.

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**Fractional quantum
mechanics and Lévy
path integrals ...**

The developer of path integrals, Nobel Prize-winning physicist Richard Feynman presents unique insights into this method and its applications. Feynman starts with an intuitive view of fundamental quantum mechanics, gradually introducing path integrals.

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**Quantum Mechanics
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()

Integrals with a
complex argument of
the exponent[edit] The
integral of interest is
(for an example of an
application see

Relation between
Schrödinger's equation
and the path integral
formulation of

quantum mechanics) $\int_{-\infty}^{\infty} \exp(iS[x]) dx$

\int

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$$\int_{-\infty}^{\infty} \exp \left(\frac{1}{2} i a x^2 + i j x \right) dx.$$

Common integrals in quantum field theory - Wikipedia

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gradually introducing
path integrals.

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by Richard P.

Feynman

[Feynman,Hibbs]

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[Feynman, Hibbs]

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electrodynamics, and
the relation of path
integrals to statistical
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Stochastic Processes
and Quantum
Mechanics presents the
fundamentals of path
integrals, both the
Wiener and Feynman

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type, and their many applications in physics. Accessible to a broad community of theoretical physicists, the book deals with systems possessing a infinite number of degrees in freedom.

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Path integrals are mathematical objects that can be considered

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as generalizations to

an infinite number of variables, represented by paths, of usual integrals. They share

the algebraic properties of usual

integrals, but have new properties from the viewpoint of analysis.

They are powerful tools for the study of

quantum mechanics, since they emphasize very explicitly the correspondence

between classical and

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quantum mechanics.

Path Integrals

**Path Integrals in
Quantum Mechanics**

- Oxford Scholarship

Three main parts deal

with path integrals in

non-relativistic

quantum mechanics,

many- body physics

and field theory and

contain standard

examples (quadratic

Lagrangians, tunneling,

description of bosons

and fermions etc.) as

well as specialized

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topics (scattering,

dissipative systems,

spin & color in

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Lectures given at

ETH Zurich

arXiv:1209.1315v4

[nucl-th ...

Zinn-Justin has a book

on Path Integrals in

Quantum Mechanics.

There is also Kleinert's

Path Integrals in

Quantum Mechanics,

Statistics, Polymer

Physics, and Financial

Markets with extensive

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applications to many fields. Schulman's book Techniques and Applications of Path Integration is also very nice.

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