

geometric quantization and quantum pdf

3. From the Geometric Quantization to QL 3.1. Realization of the Hilbert Lattice The goal of this paper is a reinterpretation of main ideas of geometric quantization in the framework of quantum logic. The key strategy is to use the quantization of geometrical objects (manifolds) in order to have a quantization

Quantum Logic and Geometric Quantization

geometry arises from the study of semi-classical solutions to the Schrodinger equation, and in turn provides a geometric foundation for the further analysis of this and other formulations of quantum mechanics. These notes are still not in final form, but they have already benefited from the comments

Lectures on the Geometry of Quantization - UCB Mathematics

geometric quantization and its relationship to quantum mechanics. The purpose of the present book is to complement the preceding ones by including new developments of the theory and emphasizing the computations leading to results in quantum mechanics. I am greatly indebted to the participants of the

Geometric Quantization and Quantum Mechanics - Springer

2 From Classical to Quantum Mechanics 2.1 Dirac's rules Any quantization approach has the same aim - to associate self adjoint (or symmetric) operators f_b (which represent quantum observables) acting on some a Hilbert space H (which is the quantum phase space) to each classical observable f , that is to each function of the positions and momenta ...

Geometric Quantization of Hamiltonian Mechanics

of a physical system, called geometric quantization. To begin with, we will introduce how mathematicians formalize the notion of a classical mechanical system. Then we will show how they define and perform its quantization in this framework. The question of quantization consists in assigning a quantum system to a classical one.

Symplectic Geometry and Geometric Quantization

PDF | Geometric quantization is an attempt at using the differential-geometric ingredients of classical phase spaces regarded as symplectic manifolds in order to define a corresponding quantum theory.

(PDF) Geometric Quantization - researchgate.net

a more general point of view, based on ideas of geometric quantization, is the subject of this paper. The quantum Hall effect has also been generalized to higher dimensions [7]-[13] for a number of different spaces such as the four-sphere [7] and complex projective spaces [8]. Unlike the

The Role of the Spin Connection in Quantum Hall Effect: A

Geometric quantization (see e. g. [1]) was an attempt to formalize the above analogy between classical and quantum systems and to provide a tool to construct uniquely quantum theory once its classical counterpart is known. In particular, it has been noticed that some mathematical structures used in

Fractional Fourier Transform and Geometric Quantization

PDF | We assume that M is a phase space and H an Hilbert space yielded by a quantization scheme. In this paper we consider the set of all experimental propositions \mathcal{E} of M and we look for a ...

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