

WEYL QUANTIZATION AND METAPLECTIC REPRESENTATION

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ABSTRACT. The formal expansion defining the twisted exponential of an element of the Lie algebra $\mathcal{H}_n := (\mathbb{C}^n, \mathcal{H}_n(2, \mathbb{R}))$ can be summed and this result is used to explicitly obtain the classical function α_f corresponding to a quantization operator associated to a quadratic Hamiltonian belonging to the above mentioned Lie algebra.

Then, by applying the Weyl quantization procedure to α_f we get a representation of the group $W_n := (\mathbb{R}^n, \mathcal{H}_n(2, \mathbb{R}))$ in terms of integral operators, the kernels of which are expressed by means of the classical action. The family α_f being only locally defined, it must be considered as a distribution on the classical phase space in order to get the metaplectic representation.

In a recent work [1] the classical functions α_f on the classical phase space, associated to the quantization operators U_f corresponding to some linear physical systems have been calculated by using a trace formula.

By introducing the notion of twisted exponential [2, 3] these classical functions α_f can be directly calculated from the corresponding classical Hamiltonians. In the first part of this paper the functions α_f associated to Hamiltonians belonging to the algebra $\mathcal{H}_n := (\mathbb{C}^n, \mathcal{H}_n(2, \mathbb{R}))$ are given explicitly.

The evolution operators of the considered systems being one-parameter subgroups of the inhomogeneous symplectic group, the metaplectic representation must be obtained by quantization of the classical functions α_f . But we shall see, in the second part of this paper, that the lack of continuity of α_f prevents us from obtaining a continuous representation and that it is necessary to consider α_f as a distribution on the phase space in order to construct the metaplectic representation.

1. Let Z denote a classical phase space, i.e. an even dimensional vector space over $\mathbb{C}$'s $Z \subset \mathbb{C}^n \subset \mathbb{R}^{2n}$ ($0 < n < \infty$) with a fixed symplectic form.

It is well known that the Weyl correspondence rule (1) is not an homomorphism neither between the product of classical functions and the product of the corresponding quantum operators α_f nor between the Lie algebra structure induced on $C^\infty(Z)$ by the Poisson bracket $\{f, g\}$ and the one defined by (1) as commutator of the corresponding quantum operators.

The notion of "twisted product" has been introduced [2a] to make the Weyl correspondence rule an algebraic homomorphism for the product. The twisted product of two classical observables

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Maslov Clabes Metaplectic Representation And Lagrangian Quantization

WJ Hussar



Maslov Clases Metaplectic Representation And Lagrangian Quantization:

Maslov Classes, Metaplectic Representation and Lagrangian Quantization Maurice de Gosson, 1998-01-12 The Maslov Classes have been playing an essential role in various parts of applied and pure mathematics and physics since the early 70 s Their correct definition is due to V I Arnold and J Leray in the transversal case and to P Dazord and the author in the general case The aim of this book is to give a thorough treatment of the theory of the Maslov classes and of their relationship with the metaplectic group It is among other things shown that these classes can be reconstructed modulo 4 using only the analytic properties of the metaplectic group In the last chapter the author sketches a scheme for geometric quantization by introducing two new concepts that of metaplectic half form and that of Lagrangian catalogue the latter generalizes and simplifies the notion of Lagrangian function introduced by J Leray A Lagrangian catalogue is a collection of metaplectic half forms which are themselves cohomological wave functions whose definition is made possible by using the combinatorial properties of the Maslov classes The transformation of Lagrangian catalogues under the metaplectic group and of Hamiltonian flows is studied and it is shown that one thus recovers very easily the so called quasi classical approximation to the solutions of Schrödinger equation if one introduces a natural concept that of projection of a Lagrangian catalogue An application to geometric phase shifts including Berry's phase is given *Maslov Classes, Metaplectic Representation And Lagrangian Quantization*, 1997 *Lagrangian Manifolds and the Maslov Operator* Aleksandr S. Mishchenko, Viktor E. Shatalov, Boris Sternin, 1990-09-14 This book presents Maslov's canonical operator method for finding asymptotic solutions of pseudo differential equations The classical WKB method so named in honor of its authors Wentzel Kramers and Brillouin was created for finding quasi classical approximations in quantum mechanics The simplicity obviousness and physicalness of this method quickly made it popular specialists in mathematical physics accepted it unequivocally as one of the weapons in their arsenal The number of publications which are connected with the WKB method in one way or another can probably no longer be counted The alternative name of the WKB method in diffraction problem the ray method or the method of geometric optics indicates that the approximations in the WKB method are constructed by means of rays More precisely the first approximation of the WKB method is constructed by means of rays isolating the singular part after which the usual methods of the regular theory of perturbations are applied However the ray method is not applicable at the points of space where the rays focus or form a caustic Mathematically this fact expresses itself in the fact that the amplitude of the waves at such points become infinite **Lagrangian Analysis and Quantum Mechanics** Jean Leray, 1981 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Equivalence of Hamiltonian and Lagrangian path integral quantization** Carsten Grosse-Knetter, 1993 OSp(One Two)-covariant Lagrangian Quantization of Irreducible Massive Gauge Theories Bodo Geyer, P. M. Lavrov, Dietmar Mülsch, 1997

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