#### Using Lagrangian descriptors to calculate the Maslov index of periodic orbits

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The Maslov index of a periodic orbit is an important piece in the semiclassical quantization of non-integrable systems, while almost all existing techniques that lead to a rigorous calculation of this index are elaborate and mathematically demanding. In this paper, we describe a straightforward technique, for systems with two degrees of freedom, based on the Lagrangian descriptors. Our method is illustrated by applying it to the two-dimensional coupled quartic oscillator.

#### L INTRODUCTION

At present the most important theoretical result concerning the semiclassical quantization of chaotic systems remains perhaps the celebrated Gutzwiller trace formula [1]. In this formula, the quantized density of states, which peaks sharply at each quantized energy, is expressed as a sum over the periodic orbits (POs) of the system, where the classical action in Planck constant units S/h appears as a phase factor. Moreover, the reflections of the PO with the potential energy boundaries bring a phase loss that, in the case of an unstable PO, is given by  $\mu_{\pi}^{\pi}$ , where  $\mu$  is the so-called Maslov index of the PO. Consequently, the calculation of these indices is a principal step in the procedure of quantization of Gutzwiller. For a more general scope of the Maslov index see, e.g., Ref. [2].

Notice that, although the development of standard quantum mechanics has led to more efficient methods, semiclassical quantization still remains a topic of interest. mainly due to the fact that it allows us to establish a correspondence between classical and quantum mechanics. In the last few years, many papers have been published where the semiclassical quantization, and more specifically the quantization of POs, is used. Thus, the quantization of POs of Gutzwiller has been used to obtain an optimal basis set for the representation of eigenstates [3]. to calculate the level density of the Hénon-Heiles potential in the context of the symmetry breaking problem [4]. has been extended for steady states of nonadiabatic systems [5], to calculate different properties in nuclear collective dynamics [6], to obtain the exceptional points in the elliptical three-disk scatterer [7], to achieve an alternative (continuous time) representation of quantum maps on the torus [8], to propose an alternative approach to the periodic orbit theory of spectral correlations [9], to unveil the creation mechanism of Devil's Staircase surface in the anisotropic Kepler problem [10], to study quantum chaos in many-body systems [11], to develop a chaotic lattice field theory in one dimension [12], and also to obtain the frontier of scars determining the order-chaos transition when the Planck constant is continuously changed [13].

It is noteworthy that in Gutzwiller original derivation [1], the parameter  $\mu$  was not identified as a Maslov index, but rather as the number of conjugate points (i.e., the points where causties occur) over one period of the PO. Later, Creagh et al. [14] showed that  $\mu$  is an intrinsic property of the PO, since it is independent of the coordinate system used. Specifically, these authors demonstrated that the parameter  $\mu$  is determined by a winding number, namely, it is equal to twice the number of times the stable and unstable manifolds rotate around the PO over one period. Then, the parameter  $\mu$  is a topological invariant of the PO and can be properly called Maslow index in the usual sense. Also, Creagh et al. [14] showed that, in general, the Maslov index of a PO cannot be identified with the number of caustics, since this number is not a topological invariant of the PO which can depend on the set of coordinates used and the starting point of tibe orbit.

Moreover, the rigorous calculation of the Maslov index of a PO is not a simple task. There are some easy but non rigorous methods, such as the count of the turning points in each degree of freedom over one period, which give the correct result in many cases but fail in others. There are also rigorous but elaborate and mathematically demanding methods. Some time ago, Eckhardt and Wintgen [15] developed the theoretical result of Creagh et al. [14] obtaining computationally useful formulas, which are based on the linearized classical mechanics, to calculate the number of half-turns that the invariant manifolds rotate around the PO. Recently, Vergel et al. [16] showed how the conjugate points of a PO can be computed by using the geometrodynamic approach to classical dynamics, the number of them being equal to the value of the Maslov index. Both methods are rigorous, albeit laborious and not easy to implement. Now, in his paper, we propose a rigorous and straightforward method to obtain. for systems with two degrees of freedom, the number of half-turns that the invariant manifolds rotate around the PO, hence the Maslov index, which is based on the calculation of the Lagrangian descriptors (LDs) along the PO.

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# <u>Maslov Clabes Metaplectic Representation And Lagrangian Quantization</u>

**L** Reisser

#### **Maslov Clabes 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 I 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 Schr dinger 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, Metapletic Representation Ald Lagrangian Quantization ,1997 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 Lagrangian Manifolds and the Maslov Operator Aleksandr S. Mishchenko, Viktor E. Shatalov, Boris damaged spine 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 **Equivalence of Hamiltonian and Lagrangian path integral quantization** Carsten Grosse-Knetter, 1993

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# **Table of Contents Maslov Clabes Metaplectic Representation And Lagrangian Quantization**

- 1. Understanding the eBook Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - The Rise of Digital Reading Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Personalized Recommendations
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization User Reviews and Ratings
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization and Bestseller Lists

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- 5. Accessing Maslov Clabes Metaplectic Representation And Lagrangian Quantization Free and Paid eBooks
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization Public Domain eBooks
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization eBook Subscription Services
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization Budget-Friendly Options
- 6. Navigating Maslov Clabes Metaplectic Representation And Lagrangian Quantization eBook Formats
  - o ePub, PDF, MOBI, and More
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization Compatibility with Devices
  - Maslov Clabes Metaplectic Representation And Lagrangian Quantization Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Highlighting and Note-Taking Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Interactive Elements Maslov Clabes Metaplectic Representation And Lagrangian Quantization
- 8. Staying Engaged with Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Maslov Clabes Metaplectic Representation And Lagrangian Quantization
- 9. Balancing eBooks and Physical Books Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Maslov Clabes Metaplectic Representation And Lagrangian Quantization
- 10. Overcoming Reading Challenges
  - o Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Setting Reading Goals Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Fact-Checking eBook Content of Maslov Clabes Metaplectic Representation And Lagrangian Quantization
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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