SPLITTING AND MELNIKOV POTENTIALS IN HAMILTONIAN SYSTEMS

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We consider a perturbation of an integrable Hamiltonian system, possessing hyperbolic invariant tori with coincident whiskers. Following an idea due to Eliasson, we introduce a splitting potential whose gradient gives the splitting distance between the perturbed stable and unstable whiskers. The homoclinic orbits to the perturbed whiskered tori are the critical points of the splitting potential, and therefore their existence is ensured in both the regular (or strongly hyperbolic, or a-priori unstable) and the singular (or weakly hyperbolic, or a-priori stable) case. The singular case is a model of a nearly-integrable Hamiltonian near a single resonance. In the regular case, the Melnikov potential is a first order approximation of the splitting potential, and the standard Melnikov (vector) function is simply the gradient of the Melnikov potential. Non-degenerate critical points of the Melnikov potential give rise to transverse homoclinic orbits. Explicit computations are carried out for some examples.

1 Introduction

For more than 2 degrees of freedom, the problem of measuring the splitting of the whiskers of hyperbolic invariant tori is closely related with the existence of instability in nearly-integrable Hamiltonian systems, i.e. with the Arnold diffusion. In this lecture, the splitting is studied in a wide setting, and a general Poincaré–Melnikov theory is developed.

Setup

We start with a perturbation of a *hyperbolic integrable Hamiltonian*, with $n + 1 \geq 3$ degrees of freedom. In canonical variables $z = (x, y, \varphi, I) \in D \subset \mathbb{T} \times \mathbb{R} \times \mathbb{T}^n \times \mathbb{R}^n$, with the symplectic form $dx \wedge dy + d\varphi \wedge dI$, consider a Hamiltonian of the form

$$H(x, y, \varphi, I; \mu) = H_0(x, y, I) + \mu H_1(x, y, \varphi, I), \tag{1}$$

$$H_0(x, y, I) = \langle \omega, I \rangle + \frac{1}{2} \langle \Lambda I, I \rangle + \frac{y^2}{2} + V(x) + \langle \Lambda, I \rangle y. \tag{2}$$

On The Splitting Of Invariant Manifolds In Multidimensional Near Integrable Hamiltonian Systems

Yaozhong Hu

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Giorgilli,2022-05-05 Starting with the basics of Hamiltonian dynamics and canonical transformations this text follows the historical development of the theory culminating in recent results the Kolmogorov Arnold Moser theorem Nekhoroshev s theorem and superexponential stability Its analytic approach allows students to learn about perturbation methods leading to advanced results Key topics covered include Liouville s theorem the proof of Poincar s non integrability theorem and the nonlinear dynamics in the neighbourhood of equilibria The theorem of Kolmogorov on persistence of invariant tori and the theory of exponential stability of Nekhoroshev are proved via constructive algorithms based on the Lie series method A final chapter is devoted to the discovery of chaos by Poincar and its relations with integrability also including recent results on superexponential stability Written in an accessible self contained way with few prerequisites this book can serve as an introductory text for senior undergraduate and graduate students **A Generating Function Approach to the Enumeration of Matrices in Classical Groups over Finite Fields** Jason Fulman,P. M. Neumann,Cheryl E. Praeger,2005 Generating function techniques are used to study the probability that an element of a classical group defined over a finite field is separable cyclic semisimple or regular The limits of these probabilities as the dimension tends to infinity are calculated in all cases and exponential convergence to the limit is proved These results complement and extend earlier results of the authors G E Wall and Guralnick Lubeck **Representation Type of Commutative Noetherian Rings III: Global Wildness and Tameness** Lee Klingler,Lawrence S. Levy,2005 This memoir completes the series of papers beginning with KL1 KL2 showing that for a commutative noetherian ring Lambda either the category of Lambda modules of finite length has wild representation type or else we can describe the category of finitely generated Lambda modules including their direct sum relations and local global relations There is a possible exception to our results involving characteristic 2 Entropy Bounds and Isoperimetry Serguei Germanovich Bobkov,B. Zegarlinski,2005 In these memoirs Bobkov and Zegarlinski describe interesting developments in infinite dimensional analysis that moved it away from experimental science Here they also describe Poincar type inequalities entropy and Orlicz spaces LSq and Hardy type inequalities on the line probability measures satisfying LSq inequalities on the real line expo **Representation Theory and Numerical AF-Invariants** Ola Bratteli,Palle E. T. Jørgensen,Vasylʹ Ostrovsʹkyĭ,2004 Part A Representation theory Part B Numerical AF invariants Bibliography List of figures List of tables List of terms and symbols Classification and Probabilistic Representation of the Positive Solutions of a Semilinear Elliptic Equation Benoît Mselati,2004 Concerned with the nonnegative solutions of Delta u u 2 in a bounded and smooth domain in mathbb R d this title intends to prove that they are uniquely determined by their fine trace on the boundary as defined in DK98a answering a major open question of Dy02 *Gromov-Hausdorff Distance for Quantum Metric Spaces/Matrix Algebras Converge to the Sphere for Quantum Gromov-Hausdorff Distance* Marc Aristide Rieffel,2004 By a quantum metric space we mean a C DEGREES algebra or more generally an order unit space equipped with a generalization of the usual Lipschitz seminorm on functions which one

associates to an ordinary metric We develop for compact quantum metric spaces a version of Gromov Hausdorff di **The $RO(G)$-Graded Equivariant Ordinary Homology of G-Cell Complexes with Even-Dimensional Cells for $G=\mathbb {Z}/p$** , **Large Viscous Boundary Layers for Noncharacteristic Nonlinear Hyperbolic Problems** Guy Métivier,Kevin Zumbrun,2005 Studies two types of integral transformation associated with fractional Brownian motion that are applied to construct approximation schemes for fractional Brownian motion by polygonal approximation of standard Brownian motion This approximation is the best in the sense that it minimizes the mean square error **An Analogue of a Reductive Algebraic Monoid Whose Unit Group Is a Kac-Moody Group** Claus Mokler,2005 By an easy generalization of the Tannaka Krein reconstruction we associate to the category of admissible representations of the category mathcal O of a Kac Moody algebra and its category of admissible duals a monoid with a coordinate ring The Kac Moody group is the Zariski open dense unit group of this monoid The restriction of the coordinate ring to the Kac Moody group is the algebra of strongly regular functions introduced by V Kac and D Peterson This monoid has similar structural properties as a reductive algebraic monoid In particular it is unit regular its idempotents related to the faces of the Tits cone It has Bruhat and Birkhoff decompositions The Kac Moody algebra is isomorphic to the Lie algebra of this monoid *On Dynamical Poisson Groupoids I* Luen-Chau Li,Serge Parmentier,2005 We address the question of duality for the dynamical Poisson groupoids of Etingof and Varchenko over a contractible base We also give an explicit description for the coboundary case associated with the solutions of CDYBE on simple Lie algebras as classified by the same authors

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