Semiclassical study of shape resonances in the Stark effect

Kentaro Kameoka

Abstract. Semiclassical behavior of Stark resonances is studied. The complex distortion outside a cone is introduced to study resonances in any energy region for the Stark Hamiltonians with non-globally analytic potentials. The non-trapping resolvent estimate is proved by the escape function method. The Weyl law and the resonance expansion of the propagator are proved in the shape resonance model. To prove the resonance expansion theorem, the functional pseudodifferential calculus in the Stark effect is established, which is also useful in the study of the spectral shift function.

Mathematics Subject Classification (2020). Primary: 81Q20; Secondary: 47A10.

Keywords, Resonance, semiclassical limit, Stark effect, Weyl law, resonance expansion.

1. Introduction

In this paper, we study the semiclassical behavior of the resonances for the Stark Hamiltonian:

$$P(\hbar) = -\hbar^2 \Delta + \beta x_1 + V(x).$$

where $V(x) \in C^{\infty}(\mathbb{R}^n; \mathbb{R})$ is a non-globally analytic potential and $\beta > 0$. Throughout this paper, the constant $\beta > 0$ is fixed.

We set the cone

$$C(K, \rho) = \{x \in \mathbb{R}^n \mid |x'| \le K(x_1 + \rho)\},\$$

where $x' = (x_2, \dots, x_n)$, and denote its complement by $C(K, \rho)^c$. We denote the set of all bounded smooth functions with bounded derivatives by C_b^{∞} . Our assumption on the potential V is as follows:

Assumption 1. The potential $V(x) \in C_b^{\infty}(\mathbb{R}^n; \mathbb{R})$ has an analytic continuation to the region $\{x \in \mathbb{C}^n \mid \operatorname{Re} x \in C(K_0, \rho_0)^c, |\operatorname{Im} x| < \delta_0\}$ for some $\rho_0 \in \mathbb{R}, K_0 > 0$ and $\delta_0 > 0$, and $\partial V(x)$ goes to zero when $\operatorname{Re} x \to \infty$ in this region.

Semiclassical Theory Of Shape Resonances

P.D. Hislop, I.M. Sigal

Semiclassical Theory Of Shape Resonances:

Semiclassical Theory of Shape Resonances in Quantum Mechanics Peter D. Hislop, Israel Michael Sigal, 1989 In this paper we prove the existence of shape resonances in the semi classical approximation for Hamiltonians of the form italic H lowercase Greek Lambda triple bar symbol capital Greek Delta lowercase Greek Lambda2 italic V italic U on italic L2 bold R superscript italic n where lowercase Greek Lambda triple bar symbol 1 h with stroke h with stroke triple bar symbol 2 Semiclassical Theory of Shape Resonances in Quantum Mechanics ,1989 Spectral Theory P.D. Hislop, I.M. Sigal, 2012-12-06 The intention of this book is to introduce students to active areas of research in mathematical physics in a rather direct way minimizing the use of abstract mathematics. The main features are geometric methods in spectral analysis exponential decay of eigenfunctions semi classical analysis of bound state problems and semi classical analysis of resonance A new geometric point of view along with new techniques are brought out in this book which have both been discovered within the past decade This book is designed to be used as a textbook unlike the competitors which are either too fundamental in their approach or are too abstract in nature to be considered as texts The Mathematical Theory of Scattering Resonances Semyon Dyatlov, Maciej authors text fills a gap in the marketplace Zworski, 2019-09-10 Scattering resonances generalize bound states eigenvalues for systems in which energy can scatter to infinity A typical resonance has a rate of oscillation just as a bound state does and a rate of decay Although the notion is intrinsically dynamical an elegant mathematical formulation comes from considering meromorphic continuations of Green s functions The poles of these meromorphic continuations capture physical information by identifying the rate of oscillation with the real part of a pole and the rate of decay with its imaginary part An example from mathematics is given by the zeros of the Riemann zeta function they are essentially the resonances of the Laplacian on the modular surface The Riemann hypothesis then states that the decay rates for the modular surface are all either or An example from physics is given by quasi normal modes of black holes which appear in long time asymptotics of gravitational waves This book concentrates mostly on the simplest case of scattering by compactly supported potentials but provides pointers to modern literature where more general cases are studied It also presents a recent approach to the study of resonances on asymptotically hyperbolic manifolds The last two chapters are devoted to semiclassical methods in the study of resonances **Spectral Analysis on Graph-like Spaces** Olaf Post, 2012-01-05 Small radius tubular structures have attracted considerable attention in the last few years and are frequently used in different areas such as Mathematical Physics Spectral Geometry and Global Analysis In this monograph we analyse Laplace like operators on thin tubular structures graph like spaces and their natural limits on metric graphs In particular we explore norm resolvent convergence convergence of the spectra and resonances Since the underlying spaces in the thin radius limit change and become singular in the limit we develop new tools such as norm convergence of operators acting in different Hilbert spaces an extension of the concept of boundary triples to partial

differential operators and an abstract definition of resonances via boundary triples These tools are formulated in an abstract framework independent of the original problem of graph like spaces so that they can be applied in many other situations where the spaces are perturbed **Spectral Theory and Mathematical Physics: A Festschrift in Honor of Barry Simon's 60th Birthday** Fritz Gesztesy,2007 This Festschrift had its origins in a conference called SimonFest held at Caltech March 27 31 2006 to honor Barry Simon's 60th birthday It is not a proceedings volume in the usual sense since the emphasis of the majority of the contributions is on reviews of the state of the art of certain fields with particular focus on recent developments and open problems The bulk of the articles in this Festschrift are of this survey form and a few review Simon's contributions to aparticular area Part 1 contains surveys in the areas of Quantum Field Theory Statistical Mechanics Nonrelativistic Two Body and N Body Quantum Systems Resonances Quantum Mechanics with Electric and Magnetic Fields and the Semiclassical Limit Part 2 contains surveys in the areas of Random and Ergodic Schrodinger Operators Singular Continuous Spectrum Orthogonal Polynomials and Inverse Spectral Theory In several cases this collection of surveys portrays both the history of a subject and its current state of the art A substantial part of the contributions to this Festschrift are survey articles on the state of the art of certain areas with special emphasis on open problems This will benefit graduate students as well as researchers who want to get a quick yet comprehensive introduction into an area covered in this volume

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spaces function spaces harmonic analysis operator theory and application of functional analysis **European Congress of** Mathematics Carles Casacuberta, Rosa Maria Miro-Roig, Joan Verdera, Sebastia Xambo-Descamps, 2012-12-06 This is the first volume of the proceedings of the third European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners as well as papers by plenary and parallel speakers The second volume collects articles by prize winners and speakers of the mini symposia This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician Contributors R Ahlswede V Bach V Baladi J Bruna N Burg X Cabr P J Cameron Z Chatzidakis C Ciliberto G Dal Maso J Denef R Dijkgraaf B Fantechi H F llmer A B Goncharov A Grigor van M Harris R Iturriaga K Johansson K Khanin P Koskela H W Lenstra Jr F Loeser Y I Manin N S Manton Y Meyer I Moerdijk E M Opdam T Peternell B M A G Piette A Reznikov H Schlichtkrull B Schmidt K Schmidt C Sim B T th E van den Ban M F Vign ras O Viro Selberg Trace Formulae and Equidistribution Theorems for Closed Geodesics and Laplace Steven Zelditch,1992 This memoir extends the author s earlier work and gives a generalization of the Selberg trace formula and applications to generalizations of the eigenvalue counting problem and the prime geodesic theorem As a consequence of these results he obtains both a proof of the equidistribution theorem for closed geodesics and sharp error estimates His previous work derived the relevant trace formulae in the compact quotient case and this paper is concerned largely with the additional complications that occur in the noncompact case both in terms of deriving the relevant formulae and in estimating various terms Long Time Behaviour Of Classical And Quantum Systems - Proceedings Of The Bologna Aptex International Conference Sandro Graffi, Andre Martinez, 2001-04-02 This book is centered on the two minicourses conducted by C Liverani Rome and J Sjoestrand Paris on the return to equilibrium in classical statistical mechanics and the location of quantum resonances via semiclassical analysis respectively The other contributions cover related topics of classical and quantum mechanics such as scattering theory classical and quantum statistical mechanics dynamical localization quantum chaos ergodic theory and KAM techniques

Spectral and Scattering Theory M. Ikawa,2020-12-17 This useful volume based on the Taniguchi International Workshop held recently in Sanda Hyogo Japan discusses current problems and offers the mostup to date methods for research in spectral and scattering theory Dynamics of Molecular Collisions W. Miller,2013-11-11 Activity in any theoretical area is usually stimulated by new experimental techniques and the resulting opportunity of measuring phenomena that were previously inaccessible Such has been the case in the area under consideration he re beginning about fifteen years aga when the possibility of studying chemical reactions in crossed molecular beams captured the imagination of physical chemists for one could imagine investigating chemical kinetics at the same level of molecular detail that had previously been possible only in spectroscopic investigations of molecular stucture This created an interest among chemists in scattering theory the molecular level description of a bimolecular collision process Many other new and also powerful experimental techniques

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Bers complex structure of the Teichmuller space and Mumford complex structure of the moduli space of stable bundles of degree zero on italic C Algebraic and Analytic Microlocal Analysis Michael Hitrik, Dmitry Tamarkin, Boris Tsygan, Steve Zelditch, 2018-12-19 This book presents contributions from two workshops in algebraic and analytic microlocal analysis that took place in 2012 and 2013 at Northwestern University Featured papers expand on mini courses and talks ranging from foundational material to advanced research level papers and new applications in symplectic geometry mathematical physics partial differential equations and complex analysis are discussed in detail Topics include Procesi bundles and symplectic reflection algebras microlocal condition for non displaceability polarized complex manifolds nodal sets of Laplace eigenfunctions geodesics in the space of K hler metrics and partial Bergman kernels This volume is a valuable resource for graduate students and researchers in mathematics interested in understanding microlocal analysis and learning about recent research in the area

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