

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

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

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 $\operatorname{Re} x \rightarrow \infty$ in this region.

Semiclassical Theory Of Shape Resonances

Michael Rajnik



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








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