Spectral Theory of Schrödinger Operators on Euclidean and on Non-Euclidean Spaces

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Introduction

In this paper we shall discuss some problems which arise in the study of spectral properties of Schrödinger type operators. We shall consider problems which are associated with the study of the continuous spectrum. These will involve mathematical objects such as the generalized eigenfunctions and the scattering matrix. Typical problems which will interest us will be the problem of validity of a good eigenfunction expansion theorem and the problem of analytic continuation in the "energy" parameter of the generalized eigenfunctions, resolvent kernel and scattering matrix.

We shall consider the following two classes of operators.

(i) Schrödinger operators on $\mathbb{R}^n$.

(ii) Laplace Beltrami operators acting on Γ-automorphic functions on the hyperbolic plane, where Γ is a finitely generated Fuchsian group with an unbounded fundamental domain.

The motivation for the study of the spectral properties of the two classes of operators is due to two different sources. In the case of Schrödinger operators it comes from physics whereas in the second case it comes from analytic number theory. In spite of this difference in motivation there are striking similarities between the spectral results obtained for the two classes of operators. The purpose of this paper is to dwell on some of these similarities and show that one can derive the main spectral results for the two classes of operators by a unified method based on a single principle relating the generalized eigenfunctions with the asymptotic behavior of the resolvent kernel.

This paper is a written version of a lecture given at the Courant Institute Jubilee Symposium. For the sake of presentation and for reasons of brevity no proofs were included in the original text. Details of some of the results described in this paper will be published elsewhere.

2. Schrödinger Operators on $\mathbb{R}^n$

We consider first the class of Schrödinger operators on $\mathbb{R}^n$. These are partial differential operators P of the form:

$$(1.1) \qquad\qquad P = -\Delta + V,$$

Theory Of Generalized Spectral Operators

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