

EIGENFUNCTION EXPANSIONS AND SCATTERING THEORY FOR PERTURBED ELLIPTIC PARTIAL DIFFERENTIAL OPERATORS¹

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1. A number of papers discussing the spectral decomposition and eigenfunction expansion for partial differential operators appeared in the last few years. Browder [1], [2], [3], [4], Gårding [5] and Mautner [12] proved the existence of an abstract eigenfunction expansion for elliptic partial differential operators. In 1953 A. Ya. Povzner [13] considered the detailed spectral decomposition of $-\Delta + q(x)$. This was completed by T. Ikebe [6] who used the theory of wave operators as developed by Kato [8] and Kuroda [10], [11].

In this note we investigate an eigenfunction expansion for the operator $P(D) + q(x)$ where $P(D)$ is a linear homogeneous elliptic partial differential operator with constant coefficients. Detailed proofs of the results will appear elsewhere.

2. The Euclidean n -space will be denoted by R_n or M_n with elements $x = (x_1, \dots, x_n)$ or $k = (k_1, \dots, k_n)$ respectively. $\int f(x)dx$ denotes integration with respect to Lebesgue measure. We set

$$-D_j = \frac{\partial}{i\partial x_j} \quad \text{for } 1 \leq j \leq n.$$

Let $P(x)$ be a homogeneous elliptic polynomial, i.e. $P(x) \geq c|x|^{2p}$ where $2p$ is the order of $P(x)$. Then $P(D) = P(D_1, \dots, D_n)$ is a linear homogeneous elliptic partial differential operator. All through this note we assume that $4p > n$. It is well known that $P(D)$ can be extended to a selfadjoint operator $\hat{P}(D)$ in $L_2(R_n)$. Let $q(x) \in C_{2(n+1)/2}$ with $q(x) = O(|x|^{-n-k})$ for some $k > 0$. Then by Theorem 1 of [11], $\hat{P}(D) + q(x)$ is a selfadjoint operator in $L_2(R_n)$. Let $\{E_t\}$ and $\{\hat{P}_t\}$, $-\infty < t < +\infty$, be the resolutions of the identity for $\hat{P}(D)$ and $\hat{P}(D) + q(x)$ respectively. Define

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Contributions To The Theory Of Partial D

Katrin Zwirgmaier



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