

most polynomial growth on every half-space $\text{Re}(z) > c$. Moreover, $\text{Op}(t)$ depends holomorphically on t for $\text{Re } t > 0$. General references for much of the material on the derivation of spectral functions, asymptotic expansions and analytic properties of spectral functions are [A-P-S] and [Sh], especially Chapter 2. To study the spectral functions and their relation to the geometry and topology of X , one could, for example, take the natural associated parabolic problem as a starting point. That is, consider the heat equation: $(\partial_t + p)u(x, t) = 0$ $\{ u(x, 0) = U_0(x), t \in \mathbb{R}^+$ which is solved by means of the (heat) semi group $V(t) = e^{-tP}$; namely, $u(x, t) = \int V(t)u_0(x) dx$. Assuming that $V(t)$ is of trace class (which is guaranteed, for instance, if P has a positive principal symbol), it has a Schwartz kernel $K \in \mathcal{COO}(X \times X \times \mathbb{R}^+, E^* \hat{\otimes} E)$, locally given by $\int \int K(x, y; t) = \sum_{k=0}^{\infty} \int \langle \hat{A}^{-k} P^k \rangle(X, y), k=0$ for a complete set of orthonormal eigensections $P^k \in \mathcal{COO}(E)$. Taking the trace, we then obtain: $\int \int \text{tr} \hat{A}^{-k} P^k = \text{trace}(V(t)) = \sum_{k=0}^{\infty} \int \langle \hat{A}^{-k} P^k \rangle$. Now, using, e. g. , the Dunford calculus formula (where C is a suitable curve around $a(P)$) as a starting point and the standard formalism of pseudodifferential operators, one easily derives asymptotic expansions for the spectral functions, in this case for Op .

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