Evans, W. D. [Evans, William Desmond] (4-CARD-SM); Saitô, Yoshimi (1-AL2)

Neumann Laplacians on domains and operators on associated trees. (English summary)


The Neumann Laplacian $-\Delta_\Omega$ is considered on a domain $\Omega$ with a generalized ridge $\Gamma$ which is a tree. Horns, spirals, domains with fractal boundaries are examples of such domains. The main results consist of comparisons between the essential spectrum of $-\Delta_\Omega$ and that of a one-term Sturm-Liouville operator $H_\Gamma$ defined on $\Gamma$.

Reviewed by Boris A. Plamenevsky

References


Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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