

ON THE ROBIN PROBLEM IN FRACTAL DOMAINS

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Let $u(x)$ be the solution to the Robin boundary problem for the Laplacian in a Euclidean domain. Geometric characterization is given for some families of fractal domains where the infimum of $u(x)$ is greater than 0, and some other families of domains where it is equal to 0. Joint work with Richard Bass and Zhen-Qing Chen.