Yau’s conjecture in between real-analytic and smooth cases

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Abstract. Let $D$ be a domain in Euclidean space with sufficiently smooth, but not real-analytic boundary. We consider eigenfunctions of Dirichlet Laplace operator and obtain a sharp estimates of the size of its zero sets conjectured by Yau. The talk is based on a joint work with A. Logunov, N. Nadirashvili and F. Nazarov.