



SEMINÁRIO DE EQUAÇÕES DIFERENCIAIS

Results on Pólya conjecture for Dirichlet eigenvalues in balls of \mathbb{R}^2 and parallelepipeds of \mathbb{R}^N

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Resumo: We will present a proof to the Pólya conjecture for the Dirichlet eigenvalues problem $-\Delta u = \lambda u$ in Ω , $u = 0$ on $\partial\Omega$, when $\Omega = [0, L_1] \times [0, L_2] \times \cdots \times [0, L_N]$, that is, when Ω is a N -dimensional parallelepiped. Also, we prove results on the Pólya conjecture, in balls $\Omega = B_R \subset \mathbb{R}^2$, and other perspectives.