

# **Steklov eigenvalues and free boundary minimal surfaces**

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## **Resumo/Abstract:**

We will introduce the Dirichlet-Neumann map and its eigenvalues, the Steklov eigenvalues. We will survey some eigenvalue bounds, and discuss extremal problems which lead naturally into questions about minimal surfaces in euclidean balls. We will discuss existence issues and questions about the geometry of solutions of the extremal problems.