Texas Tech University. Analysis Seminars.

Steklov Eigenvalues and Free Boundary Minimal Surfaces.

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ABSTRACT. The connection between Steklov eigenvalues and free boundary minimal surfaces has been developed to great effects in the last couple of years. In this talk, we first describe that connection between PDE and geometry. Then, we'll introduce the notion of a Jacobi-Steklov eigenvalue and see how it reveals extremal properties of a free boundary minimal surface.