

GEOMETRIC ANALYSIS SEMINAR

Speaker: Leon Simon

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Date: Thursday, April 8, 2021

Time: 10:00 AM (NOTE: Special Time)

Location: Zoom

Zoom URL: notredame.zoom.us/j/96288130964?pwd=c2dDelJJTXhSdTBVSEtLYlI1NEdzZz09



Lecture Title:

Stable minimal hypersurfaces in $\mathbb{R}^{N+1+\ell}$ with singular set an arbitrary closed
 $K \subset \{0\} \times \mathbb{R}^\ell$

Abstract

With respect to a C^∞ metric which is close to the standard Euclidean metric on $\mathbb{R}^{N+1+\ell}$, where $N \geq 7$ and $\ell \geq 1$ are given, we construct a class of embedded $(N + \ell)$ -dimensional hypersurfaces (without boundary) which are minimal and strictly stable, and which have singular set equal to an arbitrary preassigned closed subset $K \subset \{0\} \times \mathbb{R}^\ell$.