



Speaker: William Minicozzi
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Wednesday, October 25, 2017

4:00 PM

129 Hayes-Healy Hall

Title: Differentiability of the level set flow

Abstract:

Many physical phenomena lead to track moving fronts whose speed depends on the curvature. The level set method has been tremendously successful for modeling these problems, but the solutions are typically only continuous. I will discuss work with Toby Colding where we show that the level set method for mean curvature flow has twice differentiable solutions. This result is optimal.