

GEOMETRIC ANALYSIS SEMINAR

“The free-boundary Brakke flow”

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Abstract: A surface has geometric free-boundary in a barrier hypersurface if its boundary meets the barrier orthogonally, like a bubble on a bathtub. We extend Brakke's weak notion of mean curvature flow to have a free-boundary condition, and using toy examples we show why this extension is necessary. Contrary to the classical free-boundary flow, for which the barrier is “invisible,” our notion allows for the flow to “pop” or break up upon tangential contact with the barrier.

**Wednesday, November 2nd, 2016
MIT, Room 4-153
Time: 4:00 PM**

