Fractional mean curvature flow

Mariel Sáez

Pontificia Universidad Católica de Chile
msaezt@mat.puc.cl

In this work we study the fractional analog to the classical mean curvature flow. Namely, we consider the evolution of surfaces with normal speed equal to the fractional mean curvature and analyze their behavior under suitable assumptions. Finally we contrast our results with the behavior of surfaces evolving under classical mean curvature flow. This is joint work with Enrico Valdinoci.