

Institute for Mathematics and its Applications
2011 Seminar Series: 5
University of Wollongong

Title: Non-collapsing in mean-convex mean curvature flow

Speaker: Mat Langford (Australian National University)

Time and Date: 9:30am, Wednesday May 18, 2011

Location: Room 15.113 (Access grid room)

Abstract: Using a neat oscillation technique a class of precise non-collapsing results for embedded mean convex surfaces moving by mean curvature may be proved. The technique considers a function of two points on the manifold and relies on the maximum principle. The non-collapsing results lead to a simple proof of Huisken's theorem, that embedded convex surfaces shrink to round points under the flow.