

# DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, MAY 8, 2013

PADELFORD C-36

3:50PM–5PM

Construction of immersed self-shrinkers

**Greg Drugan**

(UW)

We will discuss a procedure for constructing an infinite number of immersed self-shrinking solutions to the mean curvature flow for each of the following topological types: the sphere, the plane, the cylinder, and the torus. The self-shrinkers we construct have a rotational symmetry, and the construction involves a detailed study of geodesics in the upper-half plane with a conformal metric. This is a joint work with Stephen Kleene.

For more information about this seminar, visit the DG/PDE Seminar Web page (from the Math Department home page, [www.math.washington.edu](http://www.math.washington.edu), follow the link **Seminars, Colloquia, and Conferences**).

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