

DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, APRIL 16, 2008

PADEL FORD C-36

3:50-5PM

Minimal Immersions with prescribed boundary

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In [?] the authors introduce a PDE method for producing examples of stable branched minimal immersions in \mathbb{R}^3 . This method produces q -valued functions u over the punctured unit disk in \mathbb{R}^2 so that either u cannot be extended continuously across the origin, or G the graph of u is a $C^{1,\alpha}$ stable branched immersed minimal surface. The present work gives a more complete description of these q -valued graphs G in case a discontinuity does occur, and as a result, we produce more examples of $C^{1,\alpha}$ stable branched immersed minimal surfaces, with a certain evenness symmetry.

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

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