

DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, APRIL 9, 2008

PADEL FORD C-36

3:50-5PM

A regularity result for the singular set of Mumford-Shah
minimizers near minimal cones in \mathbb{R}^3

Antoine Lemenant

()

The purpose of the talk is to present a new regularity result for Mumford-Shah minimizers in \mathbb{R}^3 . In a first part I will give an introduction about the Mumford-Shah functional, with definitions of Minimizers and known results about the Mumford-Shah conjecture and regularity of the singular set. Then I will recall Jean Taylor's Theorem about regularity of soap bubbles in \mathbb{R}^3 and try to explain how we can use a "Jean Taylor's like Theorem" to prove a same sort of regularity result about Mumford-Shah minimizers in \mathbb{R}^3 , which answer to a question that people like Guy David, Luigi Ambrosio, Nicola Fusco and Diego Pallara was wondering in 1996.

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**).

The University of Washington is committed to providing access, equal opportunity and reasonable accommodation in its services, programs, activities, education and employment for individuals with disabilities. To request disability accommodation contact the Disability Services Office at least ten days in advance at: 206-543-6450/V, 206-543-6452/TTY, 206-685-7264 (FAX), or dso@u.washington.edu.