JOINT DIFFERENTIAL GEOMETRY/PDE & INVERSE PROBLEMS & RAINWATER SEMINAR

Tuesday, November 23, 2004

Padelford C-401

2:30 PM

(Note: special day, time and room!)

Boundary rigidity and volume minimality for almost flat metrics

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A compact Riemannian manifold with boundary is said to be boundary rigid if its metric is uniquely determined (up to an isometry) by the distances between the boundary points; and is said to be a minimal filling if it has the least volume among all compact Riemannian manifolds with the same boundary and the same or greater boundary distances. I will discuss the following result of a recent joint work with S. Ivanov: Euclidean regions with Riemannian metrics sufficiently close to a Euclidean one are minimal fillings and boundary rigid.

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**).