

DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, DECEMBER 8, 2004

PADELFORD C-36

3:50 PM

Local solvability/nonsolvability of Monge-Ampere equations in the plane

MARCUS KHURI
(STANFORD UNIVERSITY)

The most basic question that one can ask of a PDE is whether or not it admits local solutions. However, even for the most well-studied nonlinear equations this question remains largely unanswered. Here we will present degenerate hyperbolic and mixed type Monge-Ampere equations in the plane which do not admit local solutions. We will also discuss conditions under which these equations are locally solvable, and give some applications to differential geometry.

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.