

# DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, MAY 4, 2005

PADEL FORD C-36

3:50-5PM

$L^p$  estimates for wave equations with coefficients of Sobolev  
regularity

**Matt Blair**

(UW)

In this talk, I will discuss problems in establishing  $L^p$  estimates for solutions to wave equations whose coefficients are not infinitely differentiable. After giving some background on the recent successes in this area, I will discuss these estimates in the case where the coefficients lie in a Sobolev space of sufficiently high order. Wave packets and their applications in proving such estimates will be introduced.

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**).

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](mailto:dso@u.washington.edu).