

## DIFFERENTIAL GEOMETRY/PDE SEMINAR

WEDNESDAY, MAY 4, 2005

PADELFORD C-36

3:50-5PM

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

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(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**).

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