

JOINT INVERSE PROBLEM AND DIFFERENTIAL GEOMETRY/PDE SEMINAR

MONDAY, APRIL 25, 2005

THO 235

3:50 PM

(NOTE: SPECIAL PLACE, DAY AND TIME!)

Optical Tomography on Simple Riemannian Surfaces

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Optical tomography refers to the use of near-infrared light to determine the optical absorption and scattering properties of a medium. In the stationary Euclidean case the dynamics are modeled by the radiative transport equation which assumes that, in the absence of interaction, particles follow straight lines. Here we shall study the problem in the presence of a Riemannian metric where particles follow the geodesic flow of the metric. In particular we study the problem in dimension two where the analysis is more delicate than in the higher dimensional cases.

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**).

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