

FELIX KLEIN SEMINAR

Speaker: Robin Graham
University of Washington



Date: Thursday, November 7, 2019

Time: 2:00 PM

Location: 258 Hurley Hall

Lecture Title:

Geodesic X-ray Transforms and Boundary Rigidity

Abstract

This talk will introduce the problem of injectivity and inversion of geodesic X-ray transforms in various geometric settings. The associated nonlinear boundary rigidity problem, which consists of determining a Riemannian metric on a compact manifold-with-boundary from the lengths of its geodesics joining boundary points, will also be discussed. Classical results and recent progress will be described, including current research on the analogous questions in the setting of asymptotically hyperbolic manifolds.