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**Speaker:** Haomin Wen  
University of Notre Dame

Thursday, April 21, 2016

10:30 AM

258 Hurley Hall

**Title:** From the boundary distance function to the Dirichlet to Neumann operator

**Abstract:**

I will talk about Pestov and Uhlmann's work on the boundary rigidity of simple two dimensional Riemannian surfaces. Lee and Uhlmann solved Calderón's inverse boundary problem for simple two dimensional Riemannian surfaces, which means that the conformal classes of the metrics on those surfaces are determined by the Dirichlet to Neumann operator. Pestov and Uhlmann showed later the Dirichlet to Neumann operator is determined by the boundary distance function, which leads to a proof of the boundary rigidity of simple two dimensional Riemannian surfaces.