Séminaire d'analyse

UNIVERSITÉ LAVAL

Vendredi 18 septembre 2015
14h
Local VCH 2810

Conférencier

John Toth (McGill University)

Titre

Nodal length of Steklov eigenfunctions on real-analytic Riemannian surfaces

Résumé

We prove sharp upper and lower bounds for the nodal length of Steklov eigenfunctions on real-analytic Riemannian surfaces with boundary. The argument involves frequency function methods for harmonic functions in the interior of the surface as well as the construction of exponentially accurate approximations for the Steklov eigenfunctions near the boundary. This is joint work with Iosif Polterovich and David Sher.