



Speaker: Yannick Sire
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Thursday, March 2, 2017

2:00 PM

258 Hurley Hall

Title: Bounds on eigenvalues on Riemannian surfaces

Abstract:

In a joint program with N. Nadirashvili, we developed some tools to prove existence of extremal metrics in conformal classes for eigenvalues of the Laplace-Beltrami operator on surfaces. I will describe these results and move to an application to the isoperimetric inequality of the third eigenvalue on the 2-sphere.