

Hiver 2017



Séminaire d'analyse

A Convexity Result in the Spectral Geometry of Conformally Equivalent Metrics on Surfaces

Conférencier: Mikhail Panine

University of Waterloo

Date, heure et endroit

Vendredi 13 janvier 2017

VCH-2820

14h00

Résumé :

We study analytic paths of metrics that induce isospectral Laplace-Beltrami operators over oriented compact surfaces without boundary. Applying perturbation theory, we show that sets of conformally equivalent metrics on such surfaces contain no nontrivial convex subsets. The talk is intended as an introduction to the basics of perturbation theory of the eigenvalues of self-adjoint operators. No prior knowledge of perturbation theory is expected.



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