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Inverse Problems Seminar

*An improved spectral inequality for sums of
eigenfunctions*

*Prof. Faouzi Triki
Université Grenoble Alpes*

Abstract

In the talk we revisit the problem of unique continuation of a finite sum of eigenfunctions of an elliptic operator in a divergence form from an open set to the whole domain. We show that the problem is of hyperbolic type for a single eigenfunction, and of elliptic type for sums that have two and more eigenfunctions. This inverse problem can be found in many engineering applications and is also related to control theory for the heat equation.

Date: 10 April, 2024 (Wednesday)
Time: 4:00pm – 5:00pm (Hong Kong Time)
ZOOM link: <https://cuhk.zoom.us/j/98241093146>
Meeting ID: 982 4109 3146

All are Welcome