

SUMO PRESENTS:



Spectral Geometry And Other Inverse Problems

A TALK WITH PROF. RAFFAELLO MAZZEO

ABSTRACT

Many problems, both in the “real world” and in pure mathematics, ask whether one can obtain information about an object, e.g. its geometry or other structure, by sensing it with indirect measurements. Examples go all the way from practical applications, like earthquake detection and medical imaging, to problems such as whether one can hear the shape of a drum, or read off the full geometry of a shape from primitive geometric data. There is now a coherent mathematical field that embraces many of these questions, and I will describe a few interesting settings.

OCTOBER 17, 4–5 P.M.

MATH BUILDING

Onigilly provided afterwards!

