



FEZA GÜRSEY
CENTER FOR
PHYSICS AND
MATHEMATICS

*Dual
Perspectives
Meetings*

Geometry and Spectra of Hyperbolic Three-Manifolds

Francesco Lin
Columbia University

Abstract:

The spectral properties of natural self-adjoint operators such as the Hodge Laplacian and the Dirac operator play a fundamental role in understanding many geometric and physical problems. I will discuss some aspects of the theory in the very rich context of closed hyperbolic three-manifolds, and highlight connections with geometry, low-dimensional topology, and number theory.

Date:

Friday, March 17, 2023

Program:

Morning session 10:30-12:00, Afternoon session 13:30-15:00

Location:

Boğaziçi University, Kandilli Campus, Üsküdar-İstanbul