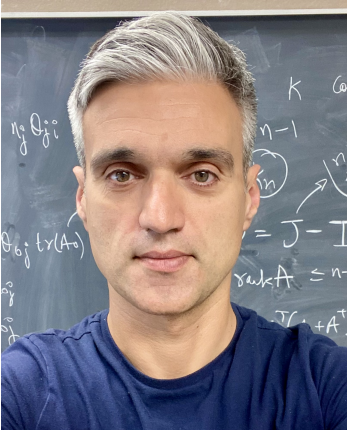


Advanced Research Initiative



**MATHEMATICS
& PHYSICS**

Speaker: Dr. Sebastian Cioaba
Date: 4 November 2024 at 1:00PM
Location: SH 154
Online link: <https://bit.ly/3zQRG0J>
Title: A brief tour of spectral graph theory



Spectral graph theory is the study of eigenvalues of graphs and their connections to the combinatorial properties of the graphs. In this talk, I will present some of my favorite results in spectral graphs involving graph decomposition and addressing, strongly regular graphs, expanders and spectral characterization of graphs. The talk should be accessible to a broad audience and I will present several open problems.

