
GEMSTONE MINI-COURSE: VARIATIONS OF GEOMETRY AND SPECTRUM

Chris Judge

Indiana University

May 9, 2025: Continuity

A wonderful thing about eigenvalues and eigenfunctions is that they depend continuously on the geometry of the domain. In fact, this continuity property is so robust that it sometimes even holds when the topology changes. In this lecture, I will explain what underlies continuity and describe a few of the myriad applications.