2025 年 11 月 7 日 (金) 中央大学幾何トポロジーセミナー

日時: 2025年11月7日(金) 17:00—18:00

場所: 中央大学後楽園キャンパス 6 号館 12 階 61225 室

講師: Julie Rowlett (Chalmers University, Sweden)

Title: The L^p Laplace spectrum of conformally compact manifolds

Abstract: This talk is about joint work with Nelia Charalambous (Cyprus). Conformally compact manifolds are a class of non-compact manifolds with variable curvature that were introduced in their full generality by Fefferman and Graham to study conformal invariants. They are a broad class and include many physical examples like manifolds with Poincaré-Einstein metrics. Despite significant interest in these spaces, there is relatively little known about their Laplace spectra. Unlike some geometric settings in which the L^p Laplace spectrum is independent of p, we will see here that the L^p Laplace spectrum on a conformally compact manifold depends not only on p but also on the geometry of the manifold.