

QUASI-ISOMETRIC RIGIDITY OF GRAPH MANIFOLD

GROUPS

Speaker: Josiah Oh Shanghai Center for Mathematical Sciences

Time: Mon., Apr. 24th, 10:30-11:00 Venue: Room 102, SCMS

Abstract:

Frigerio-Lafont-Sisto their In monograph, study high-dimensional graph manifolds. Informally speaking, these manifolds are built by gluing together pieces, where each piece is the product of a torus with a finite-volume real hyperbolic manifold. Among other things, they demonstrated quasi-isometric rigidity for the fundamental groups of these graph manifolds. In this talk I outline a plan to generalize their quasi-isometric rigidity result to a larger class of manifolds. Specifically, my goal is to prove quasi-isometric rigidity for the fundamental groups of generalized graph manifolds, where each piece is now the product of a nilmanifold with a finite-volume negatively curved locally symmetric space.