

QUASI-ISOMETRIC RIGIDITY FOR A PRODUCT OF LATTICES

Fudan Topology Seminar

Speaker: Josiah Oh

Fudan University

Time: Tue, Feb. 28th, 15:00-17:00

Venue: Room 102, SCMS

Abstract: Quasi-isometric rigidity theorems contribute to Gromov's program of classifying finitely generated groups up to quasi-isometry. In this talk we discuss the quasi-isometric rigidity for the class of groups $N \times L$, where N is a lattice in a simply connected nilpotent Lie group and L is a non-uniform lattice in a rank one semisimple Lie group. Such a group is, up to finite noise, an extension by a nilpotent lattice of a non-uniform lattice commensurable to L . This is the first step towards proving quasi-isometric rigidity for a class of spaces generalizing high-dimensional graph manifolds, as defined by Frigerio-Lafont-Sisto.