HYPERBOLIC TRANSLATION LENGTHS IN (QUASI-)MEDIAN GRAPHS

Fudan Topology Seminar

Speaker: Anthony Genevois

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Time: Tue, Jun. 6th, 15:00-17:00

Zoom Meeting ID: 853 0188 1524 **Password:Fudan2023**

Abstract: Motivated by the fact that elements of a mapping class group have rational and computable translation lengths in the corresponding curve graph, I will explain during the talk how we can show that isometries of quasi-median graphs have rational and computable translation lengths in the corresponding crossing graphs. Quasi-median graphs provide a natural generalisation of median graphs, also known as one-skeletons of CAT(0) cube complexes. They appear naturally in the study of graph products of groups. As a concrete application, the theorem applies to right-angled Artin groups and their extension graphs.