

Mathematics Colloquium

Virtual properties of arithmetic hyperbolic 3-manifolds

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Friday, February 22, 2019
4:10 – 5:00 p.m.
Building 53 Room 202

Abstract

The study of virtual properties of 3-manifold groups has played a key role in the major recent developments in 3-manifold topology. In this talk I will motivate and introduce several virtual properties of 3-manifolds. I will end with a short discussion on quantifying these virtual properties for a class of arithmetic hyperbolic 3-manifolds.

About the speaker: Michelle Chu is a NSF postdoctoral researcher at the University of California, Santa Barbara. She completed her undergraduate degree at Emory University and her Ph.D. in mathematics at the University of Texas at Austin. Her doctoral dissertation was titled “Quantifying virtual properties of Bianchi groups” and was supervised by Alan Reid. Michelle’s research combines aspects of low-dimensional geometry and topology, geometric group theory, and number theory.

Cookies will be provided before the talk at 4 p.m.
in the same room as the talk, Building 53 Room 202.