Colloquium Series
Department of Mathematics and Statistics

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Counting Zariski dense representations of hyperbolic 3-manifold groups

Abstract: The fundamental group is a group that we can associate with a topological space. We explore some properties of the fundamental groups of a class of objects arising from the complement of the figure-8 knot. In particular, we want to know the number of ways in which you can define a homomorphism from one of these groups to PSL(2,C), which is a group of matrices. This research was done as part of SUMRY. SUMRY is an eight-week REU at Yale University where undergrads explore different topics in pure and applied mathematics.

Keywords: Fundamental group, Dehn filling, Galois rigid.

Wednesday, Nov. 20, 1:30 – 1:50 pm in 4-2-314