UNIVERSITY AT ALBANY
State University of New York

College of Arts and Sciences
Department of Mathematics and Statistics

Algebra/Topology Seminar

Ryan Gelnett

The Topology of Configuration Spaces of Circles in the Plane

Thursday, October 10, 2024
3:00 p.m. in BB-B012

Abstract. We consider the space of all configurations of finitely many (potentially nested) circles in the plane and compute the fundamental group of each of its connected components. These groups can be viewed as "braided" versions of the automorphism groups of finite rooted trees. This is joint work with Justin Curry and Matt Zaremsky.