

Colloquium

“A New Algorithm in Group Theory”

Who:	Dr. Rita Gitik Department of Mathematics University of Michigan
When:	Thursday November 2, 2017 3:00 P.M.
Where:	Biology Bldg., Room 113

Abstract:

We describe a new algorithm which determines if the intersection of a quasiconvex subgroup of a negatively curved group with any of its conjugates is infinite. The algorithm is based on the concepts of a coset graph and a geodesic core of a subgroup. This algorithm is utilized in several other new algorithms computing breadth, height, and width of a quasiconvex subgroup of a negatively curved group.