

1059-20-51

Timothy R Riley* (tim.riley@math.cornell.edu), Department of Mathematics, 310 Malott Hall, Cornell University, Ithaca, NY 14850, and **Martin Kassabov**. *On the Dehn functions of Baumslag's metabelian groups.*

In 1972, Baumslag gave an example of a finitely presented metabelian group whose derived subgroup is free abelian of infinite rank. His group contains the wreath product of the integers with themselves. A small variation on his construction changes this subgroup to the lamplighter group. I will explore sharp differences in the geometry of these groups reflected in their Dehn functions. (Received February 10, 2010)