

1059-20-132

A. Abrams, N. Brady and **P. Dani***, Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803-4918, and **M. Duchin** and **R. Young**. *Filling loops far from a basepoint.*

Div_0 is a quasi-isometry invariant for groups which measures the spread of geodesics. The study of Dehn functions looks for optimal isoperimetric inequalities for filling loops with discs. We will define a new quasi-isometry invariant Div_1 that unites these two concepts. This is joint work with A. Abrams, N. Brady, M. Duchin and R. Young. (This discussion will be continued in the talk by Moon Duchin.) (Received February 22, 2010)