

1059-20-109

Aaron Abrams, Noel Brady, Pallavi Dani, Moon Duchin* (mduchin@umich.edu) and
Robert Young. *Higher divergence in right-angled Artin groups.* Preliminary report.

In the study of Hadamard manifolds, Brady and Farb introduced “higher divergence functions” in every dimension which measure rates of filling spheres by balls “at infinity” (i.e., far from a basepoint). It turns out that these filling rates can detect some geometric properties of the space. In joint work with Abrams, Brady, Dani, and Young, we define higher divergence functions for groups, and we study these functions in right-angled Artin groups. (This discussion continues the talk by Pallavi Dani.) (Received February 19, 2010)