## 1067-20-1806

Aaron Abrams, Noel Brady and Pallavi Dani<sup>\*</sup>, Department of Mathematics, Louisiana State University, Baton Rouge, LA 70803, and Moon Duchin and Robert Young. *Pushing fillings in right-angled Artin groups.* 

I will talk about a method for modifying fillings of spheres or cycles in the CAT(0) cube complex associated with a right-angled Artin group, and describe how this can be used to obtain sharp bounds on the higher Dehn functions of Bestvina-Brady groups. Similar ideas can be used to obtain estimates on higher divergence functions in right-angled Artin groups. These functions are a higher dimensional analog of the divergence of geodesics, and can be thought of as "Dehn functions at infinity". This is joint work with Aaron Abrams, Noel Brady, Moon Duchin, and Robert Young. (Received September 21, 2010)