

1059-20-180

Larsen Louder* (llouder@umich.edu) and **Ben McReynolds**. *Graphs of subgroups of free groups.*

We construct an efficient model for graphs of finitely generated subgroups of free groups and use it to answer a question of Culler and Shalen on ranks of intersections in free groups. The construction generalizes to certain graphs of limit groups, with consequences for dimension of varieties over free groups. The former has also been done independently by R P Kent IV. (Received February 22, 2010)