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Jason Behrstock, Mladen Bestvina and **Matt Clay*** (mclay@math.ou.edu), Department of Mathematics, University of Oklahoma, Norman, OK 73019-0315. *Growth of intersection numbers for free group automorphisms.*

Guirardel defined an intersection number $i(T, T')$ between two trees equipped with an action of a finitely generated group. We compute the growth of this intersection number $i(T, T\phi^n)$ where $T \in cv_k$ and ϕ is a fully irreducible automorphism. (Received February 05, 2008)