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Mark Sapir* (m.sapir@vanderbilt.edu), SC 1326, Department of Mathematics, Vanderbilt University, Nashville, TN 37240. *The dimension growth of groups.*

This is a joint work with A. Dranishnikov. We show that the dimension growth of the R.Thompson group F is exponential while the dimension growth of some amenable subgroups of F is at least $\exp \sqrt{n}$. (Received September 05, 2011)