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FAST GROWTH IN FØLNER SETS FOR THOMPSON'S GROUP

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While it is not known whether Thompson's group F is amenable, I will establish a lower bound on the size of trees occurring in Følner sets. In particular, I will demonstrate the following: There is a constant $C > 1$ such that if A is a C^{-4^n} -Følner set in F , then A contains an element whose tree diagram has at least $H(n)$ elements, where $H(0) = 0$ and $H(n + 1) = 2^{H(n)}$.

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