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Asaf Hadari* (asaf.hadari@yale.edu), 10 Hillhouse Ave. C/O Dept. Of Mathematics, New Haven, CT 06517. *Homological shadows and mapping tori.*

Suppose $f \in \text{Aut}(F_n)$ is a fully irreducible automorphism, $x \in F_n$ is a word, and $k \gg 0$. We will discuss the set $\{ab(w)\}$, where ab is the abelianization map, and w ranges over all subwords of $f^k(x)$. Then, we will discuss the connections between this set and mapping tori. (Received January 15, 2014)