1142-20-85   **Jean Pierre Mutanguha*** (`jpmutang@uark.edu`). *Hyperbolic Endomorphisms of Free Groups.*
We show that the fundamental group of a mapping torus of a graph immersion $f : \Gamma \to \Gamma$ is word-hyperbolic if and only if it has no Baumslag-Solitar subgroups. Bestvina-Feighn and Brinkmann studied the case when f is a homotopy equivalence; Kapovich and Gautero studied special types if π_1-injective maps f; we extend these previous results to maps f that induce fully irreducible endomorphisms $f_* : F_n \to F_n$. (Received August 29, 2018)