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Thomas French* (thomas.french@du.edu) and **Ronnie Pavlov** (rpavlov@du.edu). *Extender Entropy.*

For a word w in the language of a shift space X , the extender set $E_X(w)$ of w is the set of all pairs (s, u) of words so that swu is in the language of X . The set of all extender sets occurring for words of length n in X is denoted by $E_X(n)$. We define extender entropy to be the logarithmic growth rate of $|E_X(n)|$, and show that it is a useful conjugacy invariant. (Received September 16, 2019)