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**Xiangdong Ye\*** (yexd@ustc.edu.cn), Dept. of Math., Uni. of Sci. and Tech. of China, Hefei, Anhui 230026, Peoples Rep of China. *The set of sequence entropies for a given space.*

Let  $X$  be a compact metric space and  $T : X \rightarrow X$  be continuous. Let  $h^*(T)$  be the supremum of sequence entropies of  $T$  over all subsequences of  $\mathbb{N}$  and  $S(X)$  be the set of  $h^*(T)$  for all continuous maps  $T$  on  $X$ . It is known that  $S(X) \subset \{\infty, 0, \log 2, \log 3, \dots\}$ . In this talk we will determine  $S(X)$  for some spaces and will present some open questions. This is a joint work with F. Tan and R.F. Zhang. (Received January 22, 2009)