

## On decomposition of factor maps between shift spaces on groups

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For any  $\mathbb{Z}$ -shift space  $X$ , we show that the set of topological entropies of symbolic factors of  $X$  is dense in the interval  $[0, h(X)]$ . A relative version shows that if there is a symbolic factor map from  $X$  to  $Y$ , then the set of topological entropies arising from the decomposition of the map is dense in the interval  $[h(Y), h(X)]$ . We present several generalization of the result to subshifts on more complicate groups other than  $\mathbb{Z}$ .

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