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Matthew Foreman, Su Gao, Aaron Hill, Cesar E. Silva* (csilva@williams.edu) and
Benjamin Weiss. *Rank-one transformations, odometers, and finite factors.*

We will discuss explicit characterizations of rank-one transformations that factor onto a given odometer, or are isomorphic to a given odometer. The characterizations are based on the cutting and spacer parameters of the rank-one transformation. These naturally yield characterizations of which rank-one transformations factor onto some (unspecified) finite cyclic permutation, which rank-one transformations are totally ergodic, which rank-one transformations factor onto some (unspecified) odometer, and which rank-one transformations are isomorphic to some (unspecified) odometer. (Received January 22, 2022)