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**David Kerr\***, Department of Mathematics, Texas A&M University, College Station, TX 77843-3368, and **Hanfeng Li**, Department of Mathematics, SUNY at Buffalo, Buffalo, NY 14260-2900. *Continuous orbit equivalence, entropy, and sparse connectivity.*

We introduce a property sofic SC (sparse connectivity) for continuous actions of a countable sofic group  $G$  on a compact metrizable space and show that any two such actions which are continuously orbit equivalent have the same maximum sofic entropy. We show moreover that if  $G$  has a w-normal amenable subgroup which is neither locally finite nor virtually cyclic then every action of  $G$  has property SC. (Received September 16, 2019)