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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. *Orbit equivalence and Bernoulli rigidity.*

It was shown by Tim Austin that if an orbit equivalence between probability-measure-preserving actions of finitely generated amenable groups is integrable then it preserves entropy. We will show that the same conclusion holds for the maximal sofic entropy when the acting groups are countable and sofic and contain an amenable w-normal subgroup which is not locally virtually cyclic, and that it is moreover enough to assume that the Shannon entropy of the cocycle partitions is finite (what we call *Shannon orbit equivalence*). It follows that two Bernoulli actions of a group in the above class are Shannon orbit equivalent if and only if they are conjugate. (Received September 15, 2019)