Katok, A. B. [Katok, Anatole B.]; Sataev, E. A.
Standardness of rearrangement automorphisms of segments and flows on surfaces. (Russian)

Two ergodic automorphisms $T$ and $S$ of Lebesgue spaces $X$ and $Y$ are said to be monotonely equivalent if there are measurable subsets $A \subset X$ and $B \subset Y$ such that the induced transformations $T_A$ and $S_B$ are metrically isomorphic. An ergodic automorphism is said to be standard if it is monotonely equivalent to an automorphism with discrete spectrum whose spectrum consists of all roots of unity. A flow is said to be standard if it is isomorphic to a special flow over a standard automorphism. In this paper it is shown that interval shifting transformations, relative to a continuous invariant ergodic measure, are standard (and hence that a certain class of flows on surfaces are standard).


D. Newton

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