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**Some properties of step-functions connected with extension of measures.** (English)

Zbl 1181.28001

Acta Univ. Carol., Math. Phys. 49, No. 2, 57-65 (2008).

Summary: A step-function is any real-valued function whose range is (at most) countable. We discuss some measurability properties of step-functions formulated in terms of extensions of measure. The case of invariant (quasiinvariant) measures is considered especially. We show that this case essentially differs from the case of ordinary measures.

**MSC:**

28A05 Classes of sets (Borel fields,  $\sigma$ -rings, etc.), measurable sets, Suslin sets, analytic sets

28D05 Measure-preserving transformations

**Keywords:**

step-function; extension of measure; invariant measure; quasiinvariant measure; universal measure zero set

**Full Text:** [EuDML](#)