

عنوان مقاله:

Tsallis entropy of fuzzy  $\sigma$ -algebras

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خلاصه مقاله:

The Shannon entropy and the logical entropy of fuzzy  $\sigma$ -algebras are well-known instances of entropy. In this paper, we introduce and study the Tsallis entropy of order  $\alpha$  of fuzzy  $\sigma$ -algebras on  $F$ -probability measure spaces, where  $\alpha \in (0, 1) \cup (1, \infty)$ . Moreover, we study the conditional version of this entropy and examine its basic properties.

کلمات کلیدی:

Tsallis entropy, Entropy, Conditional Tsallis entropy, Fuzzy  $\sigma$ -algebras

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