

Fuzzy Effect Algebras and Decomposition Theorems

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ABSTRACT

In the present paper, we introduce and investigate charges on fuzzy effect algebras. We also investigate the relation between charges and measures on fuzzy effect algebras. Finally, we prove Jordan and Hahn decomposition theorems for charges defined on fuzzy effect algebras. We give numerous examples in the support of the concepts.

Keywords: Effect Algebra; Fuzzy Sets

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