

On a representable class of separated lattice EQ-algebras

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1. Abstract

In this paper, we introduce and study a class of separated lattice EQ-algebras that may be represented as subalgebras of products of linearly ordered ones. Such algebras are called representable. Namely, we enrich separated lattice EQ-algebras with a unary operation (the so called Baaz delta), fulfilling some additional assumptions. The resulting algebras are called ℓEQ_{Δ}^s -algebras. One of the main results of this paper is to characterize the class of representable ℓEQ_{Δ}^s -algebras. We also supply a number of useful results, leading to this characterization.