ISOMORPHY TYPES OF EXPANDED SUPERATOMIC ERSHOV ALGEBRAS

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Countable superatomic Ershov algebras with distinguished ideal are studied. A classification is given of isomorphy types of countable superatomic Ershov algebras with distinguished ideal and ordinal type at most ω. It is proven that, for a sufficiently wide class of elementary theories T, there exist continuum many nonisomorphic countable Ershov algebras with distinguished ideal and countable ordinal type of a given theory T.

Key words and phrases: I-algebra, Ershov algebra, isomorphy type.

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