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2. Algebra

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Atomic decompositions of algebras and structures

A type Δ of decompositions of algebras or structures of type τ is called *atomic* if every algebra or structure of type τ has a Δ-decomposition whose components are Δ-indecomposable. The most known atomic type are subdirect decompositions. However, atomic decompositions are not numerous. For example, except the subdirect products, only four atomic decompositions of semigroups are known. We shall present various atomic decompositions of semigroups, automata, ordered sets etc. These results are joint work with Stojan Bogdanović.