

Algebraic properties of generalized MV-algebras

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The variety of (non-commutative) MV-algebras as a generalization of classical (commutative) MV-algebras introduced by C.C.Chang as an algebraic counterpart of the Lukasiewicz infinite valued propositional logic is studied.

Namely, it is shown that they form a regular subclass of the variety of BL-algebras (introduced by P. Hájek), the finite basis of ideal terms (in the sense of A. Ursini) is presented as well as their deductive systems are introduced and studied.