

On the Logic of Perfect MV -algebras: Projectivity, Unification, Structurally Completeness

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The variety of $MV(C)$ -algebras generated by perfect MV -algebras and the logic of this variety is investigated. Perfect $MV(C)$ -algebras are those MV -algebras generated by their infinitesimal elements or, equivalently, generated by their radical, where radical is the intersection of all maximal ideals. Dual objects of these algebras are constructed. It is shown that finitely generated $MV(C)$ -algebra is projective if it is finitely presented. Unification type of the variety of $MV(C)$ -algebras is 1. Moreover, the variety of $MV(C)$ -algebras is structurally complete.