

Twist construction for BCK algebras

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The class of BCK-algebras was introduced in 1966 by Imai and Iséki as the algebraic semantics for a non-classical logic having only implication. This class forms a quasivariety and generalizes other algebraic structures, such as MV-algebras, lattice-ordered Abelian groups, AF C^* -algebras, Łukasiewicz algebras, and commutative integral residuated lattices. In this talk, we will establish a representation theorem for BCK-algebras in terms of twist structures and explore particular cases among some of their main subclasses.

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