

Unification in finite MV-algebras with constants

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In this work we deal with algebraic counterparts of finitely valued Lukasiewicz logic enriched with finite number of truth constants. Specifically we show that these varieties contain non-trivial minimal subvarieties generated by finite linearly ordered algebra which is functionally equivalent to Post algebra, give analysis and characterization of appropriate varieties and corresponding logical systems, Free and Projective algebras in these varieties as well as projective formulas. Unification problems and algorithm will be discussed.