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HYPERSATISFACTION OF FORMULAS IN AGEBRAIC SYSTEMS

Klaus Denecke and Dara Phusanga

Universität Potsdam Institut für Mathematik
Am Neuen Palais 10, D–14469 Potsdam (Germany)

e-mail: kdenecke@rz.uni-potsdam.de
e-mail: p.phu2514@hotmail.com

Abstract

In [2] the theory of hyperidentities and solid varieties was extended to algebraic systems and solid model classes of algebraic systems. The disadvantage of this approach is that it needs the concept of a formula system. In this paper we present a different approach which is based on the concept of a relational clone. The main result is a characterization of solid model classes of algebraic systems. The results will be applied to study the properties of the monoid of all hypersubstitutions of an ordered algebra.

Keywords: algebraic system, formula, relational clone, hyperformula.

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