

1011-03-349

Jeremy F Alm*, 396 Carver Hall, Ames, IA 50011. *Relation Algebras and Weak Representationis.*

The notion of weak representation for relation algebras can be traced back to Jónsson (and perhaps Tarski). A weak representation is an isomorphism to a collection of binary relations respecting all the operations except $+$ (union) and $-$ (complementation). The class of all weakly representable relation algebras forms a variety; however, the class of $(\cap, ;, \smile, 1')$ -reducts of weakly representable RAs does not. (Received August 30, 2005)