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CONGRUENCE PERMUTABLE SYMMETRIC EXTENDED DE MORGAN ALGEBRAS

Jie Fang

广东汕头大学数学系

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摘要

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CONGRUENCE PERMUTABLE SYMMETRIC EXTENDED DE MORGAN ALGEBRAS

Jie Fang

Department of Mathematics, Shantou University, Shantou 515063, P. R. China

Abstract An algebra A is said to be congruence permutable if any two congruences on it are permutable. This property has been investigated in several varieties of algebras, for example, de Morgan algebras, \mathcal{P} -algebras, \mathbf{K}_n -algebras. In this paper, we study the class of symmetric extended de Morgan algebras that are congruence permutable. In particular we consider the case where A is finite, and show that A is congruence permutable if and only if it is isomorphic to a direct product of finitely many simple algebras.

Key words [Congruence permutable](#) [Extended Ockham algebra](#) [Symmetric extended de Morgan algebra](#)

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通讯作者 Jie Fang jfang@stu.edu.cn

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