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TOLERANCE RELATIONS AND A COMMUTATOR ON A COMPLETE LATTICE

Abstract

The key result is a characterization of transitivity of tolerances $\tau_{(a_1,\ldots,a_n)}$ definable by a commutator on a complete lattice. For an algebra A in a congruence modular variety it can be shown that $a \in ConA$ is nilpotent iff the transitive hull of tolerance relation $\tau_{(a,a,\ldots,a)}$contains the principal congruence $Cg_{ConA}(0,a)$.