On the Ordered Set of Sequences of Commutator Operations

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Given the congruence lattice **L** of a finite algebra **A** that generates congruence modular variety, we look for those sequences of operations on **L** that are sequences of higher commutator operations of expansions of **A**. If we introduce the order of such sequences in the natural way, one can ask the following question: Does the largest element in this ordered set exist? We provide a positive answer. Nevertheless, we prove that it forms a complete lattice.

This is joint research with E. Aichinger.