

**UNCOUNTABLE INTERVAL OF VARIETIES
OF INVOLUTION SEMIGROUPS SHARING
A COMMON SEMIGROUP VARIETY REDUCT**

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Abstract: A pair of involution semigroups sharing a common semigroup reduct of order eight is constructed with the property that the varieties they generate bound an interval that contains an uncountable chain. Consequently, there exist uncountably many non-finitely generated varieties of involution semigroups sharing a common semigroup variety reduct that is finitely generated.

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Key words: semigroup, involution semigroup, variety.