

# Infinitely many not locally soluble $SI^*$ -groups

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## Abstract

The class of (torsion-free)  $SI^*$ -groups which not locally soluble, has the cardinality of the continuum. Moreover, these groups are not only pairwise non-isomorphic, but also they generate pairwise different varieties of groups. Thus, the set of varieties generated by not locally soluble  $SI^*$ -groups is of the same cardinality as the set of all varieties of groups. It is possible to localize a variety of groups which contains all groups and varieties constructed. The examples constructed here continue the well known example of a not locally soluble  $SI^*$ -group built by Hall and by Kovács and Neumann.