

**Medvedev, N. Ya.**

**Free products of  $\ell$ -groups.** (English. Russian original) Zbl 0577.06014

*Algebra Logic* 23, 336-346 (1984); translation from *Algebra Logika* 23, No. 5, 493-511 (1984).

From the author's introduction: The article contains the following main results: It is proved that sublattices of free products in varieties of nilpotent  $\ell$ -groups generated by the free factors are free products of  $D_\ell$ -lattices (Theorem 1); it is proved that the free products of finitely generated  $\ell$ -groups in arbitrary varieties of  $\ell$ -groups contained in the variety of  $\ell$ -groups with subnormal jumps are irreducible into an  $\ell$ -direct product (Theorem 2); it is proved that the lattice of quasivarieties of  $\ell$ -groups is not modular (Theorem 3); examples of varieties of associative lattice-ordered rings having no finite basis of identities are constructed (Propositions 1 and 2).

Reviewer: F.Šik

**MSC:**

- 06F15 Ordered groups
- 20E06 Free products of groups, free products with amalgamation, Higman-Neumann-Neumann extensions, and generalizations
- 20F18 Nilpotent groups
- 20F60 Ordered groups (group-theoretic aspects)
- 20E10 Quasivarieties and varieties of groups
- 06B20 Varieties of lattices
- 08B15 Lattices of varieties
- 08C15 Quasivarieties

Cited in 1 Document

**Keywords:**

sublattices of free products; varieties of nilpotent  $\ell$ -groups; free products of finitely generated  $\ell$ -groups; varieties of  $\ell$ -groups; lattice of quasivarieties; basis of identities

**Full Text:** [DOI](#)

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