

**Budkin, A. I.**

**The lattice of quasivarieties of torsion-free metabelian groups.** (Russian, English)

Zbl 1030.08003

[Algebra Logika](#) 42, No. 2, 161-181 (2003); translation in [Algebra Logic](#) 42, No. 2, 92-104 (2003).

Let  $M$  be a quasivariety and let  $L_q(M)$  be the lattice of quasivarieties in  $M$ . The author denotes by  $F_2(A^2)$  a free metabelian group on two generators and by  $F_2(N_2)$  a free nilpotent group of degree two on two generators.

**Theorem 2.** If a quasivariety  $M$  contains the groups  $F_2(A^2)$  and  $F_2(N_2)$  then  $L_q(M)$  is not a modular lattice.

**Theorem 3.** Under the conditions of Theorem 2 the lattice  $L_q(M)$  is infinite.

Reviewer: K.N.Ponomarev (Novosibirsk)

**MSC:**

08C15 Quasivarieties

20F18 Nilpotent groups

08B15 Lattices of varieties

**Keywords:**

metabelian group; lattice of quasivarieties; modular lattice

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