

**Kopytov, V. M.**

**Arrangement of normal subgroups in ordered groups.** (English) [Zbl 1288.06023](#)  
*Algebra Logic* 51, No. 6, 487-495 (2013); translation from *Algebra Logika* 51, No. 6, 734-747 (2012).

Summary: We look into the problem of determining the arrangement of normal (not necessarily relatively complex) subgroups  $A$  of a linearly ordered group  $G$  with respect to a system  $\mathcal{L}(G)$  of convex subgroups and describing the structure of quotient groups  $G/A$  with the aid of notions of the theory of linearly ordered groups. A characterization of quotient groups is obtained for groups possessing an infrainvariant system of subgroups. For the class of linearly ordered groups, as well as for certain of the classes close to it, answers to some known particular questions have been found.

**MSC:**

**06F15** Ordered groups

**Keywords:**

linearly ordered group; normal subgroup; quotient group; infrainvariant system of subgroups

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

**References:**

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