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Extensions of lattice-ordered groups. (Russian, English) [Zbl 1164.06326](#)

[Algebra Logika 47, No. 5, 529-540 \(2008\)](#); translation in [Algebra Logic 47, No. 5, 297-303 \(2008\)](#).

Summary: A number of conditions are specified that are sufficient for totally ordered groups with polycyclic factor group to contain a finite normal series of convex subgroups whose factors possess sufficiently good properties. In any case, studying such totally ordered groups is reduced to treating extensions of these groups as well as their virtually o-equivalent extensions. The concept of a virtually o-equivalent extension is a particular case of the notion of an Archimedean extension.

MSC:

[06F15](#) Ordered groups

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