

Orderable groups with Engel-like conditions

Pavel Shumnyatsky

ABSTRACT. Let x be an element of a group G . For a positive integer n let $E_n(x)$ be the subgroup generated by all commutators $[\dots[y, x], x], \dots, x]$ over $y \in G$, where x is repeated n times. There are several recent results showing that certain properties of groups with small subgroups $E_n(x)$ are close to those of Engel groups. The present article deals with orderable groups in which, for some $n \geq 1$, the subgroups $E_n(x)$ are polycyclic. Let h, n be positive integers and G an orderable group in which $E_n(x)$ is polycyclic with Hirsch length at most h for every $x \in G$. It is proved that there are (h, n) -bounded numbers h^* and c^* such that G has a finitely generated normal nilpotent subgroup N with $h_c(N) \leq h^*$ and G/N nilpotent of class at most c^* .

1. Introduction

A group G is called an Engel group if for every $x, y \in G$ the equation $[y, x, x, \dots, x] = 1$ holds, where x is repeated in the commutator sufficiently many times depending on x and y . Throughout the paper, we use the left-normed simple commutator notation $[a_1, a_2, a_3, \dots, a_r] = [\dots[[a_1, a_2], a_3], \dots, a_r]$. The long commutators $[y, x, \dots, x]$, where x occurs i times, are denoted by $[y, {}_i x]$. An element $x \in G$ is n -Engel if $[y, {}_n x] = 1$ for all $y \in G$. A group G is n -Engel if $[y, {}_n x] = 1$ for all $x, y \in G$. Given $x \in G$, the subgroup $E_n(x)$ is the one generated by all elements of the form $[y, {}_n x]$ where y ranges over G . Note that $E_n(x)$ is not the same as the more familiar subnormal subgroup $[G, {}_n x] = [[G, {}_{n-1} x], x]$. There are several recent results showing that certain properties of groups with small subgroups $E_n(x)$ are close to those of Engel groups (see for instance [3, 4, 10]). The present article

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Orderable Groups

**Manfred Droste, László Fuchs, Brendan
Goldsmith, Lutz Strüngmann**

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