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Título: Virtually nilpotent groups with finitely many orbits under automorphisms.

Resumo: Let G be a group. The orbits of the natural action of $Aut(G)$ on G are called “automorphism orbits” of G , and the number of automorphism orbits of G is denoted by $\omega(G)$. Let G be a virtually nilpotent group such that $\omega(G) < \infty$. We prove that $G = K \rtimes H$ where H is a torsion subgroup and K is a torsion-free nilpotent radicable characteristic subgroup of G . We also discuss the structure of G when $\omega(G) = 3$ ou $\omega(G) = 4$.