1139-20-399 Marialaura Noce* (mnoce@unisa.it). Engel elements in fractal groups.

An element g of a given group G is a left Engel element if for every $x \in G$ there exists an integer $n = n(g, x) \ge 1$ such that $[x, g, .^n, g] = 1$. The set of such elements is denoted by L(G). We prove that L(G) = 1 for a certain class of fractal groups. This includes the Basilica group, the Brunner Sidki Vieira group, and the GGS group with constant defining vector. The approach relies on comparing the action of G on its first level stabilizer H with the action of G/H on the abelianization of H.

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