

Burns, R.G.; Karrass, A.; Solitar, D.

A note on groups with separable finitely generated subgroups. (English)

Bull. Aust. Math. Soc. 36, 153-160 (1987).

The authors show that in the group $K = \langle x, a; [xax^{-1}, a] = 1 \rangle$ the subgroup $H = \langle x, axa^{-2} \rangle$ is not closed in the profinite topology (i.e. K is not "subgroup separable"). As K is the fundamental group of a three-dimensional manifold this answers a question of Peter Scott in the negative.

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