

1052-20-66

Iliir Snopce* (snopce@math.binghamton.edu), 191 Main Street Apt. 3R, Binghamton, NY
13905. *A question of Iwasawa.*

For a finitely generated pro- p group G , let $d(G)$ denote the minimal number of topological generators of G . For a positive integer n , Iwasawa raised the question of determining all pro- p groups G which satisfy the following condition:

$$d(H) - n = [G : H](d(G) - n)$$

for all open subgroups H of G .

In this talk I will answer the question of Iwasawa for pro- p groups of finite rank, provided $p > n + 1$. If time permits, I will state some results about the question of Iwasawa for pro- p groups of infinite rank. (Received August 18, 2009)