Title: Minimal coverings of completely reducible groups

Author(s): Alireza Abdollahi and S. M. Jafarian Amiri

Let G be a group that is a set-theortic union of finitely many proper subgroups. Cohn defined $\sigma(G)$ to be the least integer m such that G is the union of m proper subgroups. Determining σ is an open problem for most non-solvable groups. In this paper we give a formula for $\sigma(G)$, where G is a completely reducible group.

Address:
Alireza Abdollahi
Department of Mathematics
University of Isfahan
Isfahan 81746-73441
Iran
and
Institute for Studies in Theoretical
Physics and Mathematics (IPM)
E-mail: a.abdollahi@math.ui.ac.ir

Address:
S. M. Jafarian Amiri
Department of Mathematics
Faculty of Sciences
Zanjan University
Zanjan
Iran
E-mail: sm_jaf@yahoo.ca