

Year: 2018

Vol.: 92

Fasc.: 1-2

**Title:** When every irreducible character is a constituent of a primitive permutation character

**Author(s):** Trevor Chimpinde and Pál Hegedűs

Wall's theorem claims that a finite solvable group  $G$  has at most  $|G| - 1$  maximal subgroups. A recent proof of the theorem uses a partial correspondence between maximal subgroups and irreducible characters. In this note, we characterise the extreme case of that proof: when is it true that for every irreducible character  $\chi$  there exists a maximal subgroup  $M < G$  such that  $\chi_M$  has a principal constituent?

**Address:**

Trevor Chimpinde  
Department of Mathematics  
University of Zambia  
Post Box 53468  
Lusaka  
Zambia

**Address:**

Pál Hegedűs  
Department of Mathematics  
Central European University  
Nádor utca 9  
1051 Budapest  
Hungary