

KOLLOQUIUM

Dienstag, 25. Mai 2004, 17.15 Uhr, F102

Jon F. Carlson (Athens)

Coclass and p -groups

The classification of finite simple groups is one of the most celebrated accomplishments of mathematics of the last century. Less well known is a recent classification of finite p -groups, groups whose elements all have order a power of a prime p . This was accomplished by Leedham-Green and several others. In this classification the p -groups are sorted into families associated to objects called uniserial p -adic space groups. The space groups and the families can be reasonably described in terms of matrix groups. A large part of the lecture will be devoted to explaining the classification. Then the question is how do we use it? A few implications will be discussed.