Seminário de Álgebra

Finite groups, minimal bases and the intersection number

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Abstract.

Abstract. In this paper we study three invariants of a finite group G. The first is the minimal dimension of G, that is, the minimal size of a maximal irredundant family of maximal subgroups of G. The second is the intersection number of G, that is, the minimal number of maximal subgroups of G whose intersection is the Frattini subgroup of G. The third is the base number of G, that is, the minimal number of conjugate maximal subgroups of G whose intersection is the Frattini subgroup of G if such number exists. I will present several results concerning simple, almost simple and solvable finite groups. For more details, see the Arxiv link : https://arxiv.org/abs/2009.10137.