Algebra Seminar

The solubility graph of a finite group

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Time: 2:30 pm

Acesso à sala virtual:

https://us02web.zoom.us/j/88339053665?pwd=S2xCeFR3VUdCdGZHUnpCZHZRbjZQdz09 ID da reunião: 883 3905 3665 Senha de acesso: 975213

Abstract. The solubility graph associated with a finite group G is a simple graph whose vertices are the elements of G, and there is an edge between two distinct vertices if and only if they generate a soluble subgroup. The aim of this talk is to present some new results related to the solubility graph, underlining how graph properties affect the structure of the group G. In particular, we will focus on the set of neighbors of a vertex investigating both arithmetic and structural properties of this set.

This is a joint work with Banafsheh Akbari and Costantino Delizia.