SEMINÁRIO DE ÁLGEBRA

On graphs encoding the generating properties of a finite group

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Abstract. The generating graph $\Gamma(G)$ of a finite group G is the graph defined on the non-identity elements of G in such a way that two distinct vertices are connected by an edge if and only if they generate G. The graph $\Gamma(G)$ gives interesting information only if G is 2-generated.

We introduce an alternative definition that works in a more general setting and encodes the generating properties of a d-generated finite group, for any positive integer d. In the talk we will present some results and questions related to the study of these graphs. This is a joint work with Andrea Lucchini.