



Year: 2006

Vol.: 69

Fasc.: 3

Title: Representing graphs by the non-commuting relation

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We determine the minimal k such that every graph on n vertices can be represented in a group of size at most k by the non-commuting relation. We also consider representing graphs by matrices and permutations. As a byproduct we obtain a non-linearity criterion which can be applied to weakly branch groups.

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