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GRAPHICAL COMPLEXITY OF DIRECT PRODUCTS
OF PERMUTATION GROUPS

The conditions under which the direct product of permutation groups can be realized as the automorphism group of an edge-colored graph are known; however, the number of colors used in such constructions is far from optimal. We refine these results by expressing the required number of colors in terms of those needed for the 2^* -closures of the component groups.

This is joint work with Mariusz Grech.