

On primitive 2-closed permutation groups of rank at most four

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Abstract:

In this talk, I will discuss the characterisation of the primitive 2-closed groups G of rank at most four that are not the automorphism group of a graph or digraph, and we show that if the degree is at least 2402 then there are just two infinite families or $G \leq \text{AGL}_1(p^d)$, the 1-dimensional affine semilinear group. To the best of our knowledge, these are the first known examples of non-regular 2-closed groups that are not the automorphism group of a graph or digraph. This is a joint work with Michael Giudici and Luke Morgan.