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On Elkies’ method for bounding the transitivity degree of Galois groups. (English)

Summary: In 2013 Elkies described a method for bounding the transitivity degree of Galois groups. Our goal is to give additional applications of this technique, in particular verifying that the monodromy group of the degree-276 cover defined over a degree-12 number field computed by Monien is isomorphic to the sporadic Conway group $\text{Co}_3$.

MSC:
11R32 Galois theory
11Y40 Algebraic number theory computations
12F10 Separable extensions, Galois theory
14H05 Algebraic functions and function fields in algebraic geometry
20D08 Simple groups: sporadic groups

Keywords:
Galois group computation; Hasse-Weil bound; function fields

Full Text: DOI

References:
[2] Barth, Dominik; Wenz, Andreas, A family of 4-branch-point covers with monodromy group $\text{PSL}_6(2)$ (2020) · Zbl 1451.14097

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