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On Elkies’ method for bounding the transitivity degree of Galois groups. (English)
Zbl 07379068

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:
12Fxx Field extensions
14Hxx Curves in algebraic geometry
68Wxx Algorithms in computer science

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 \( \langle \text{PSL}_6(2) \rangle \) (2020) · Zbl 1451.14097

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