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An effective version of Belyi's theorem in positive characteristic. (English) Zbl 07419377
J. Number Theory 231, 251-268 (2022)

Summary: The purpose of the present paper is to give an effective version of the noncritical $p$-tame Belyi theorem. That is to say, we compute an explicit bound on the minimal degree of tamely ramified Belyi maps in positive characteristic which are unramified at a prescribed finite set of points.

MSC:
14H30 Coverings of curves, fundamental group
14Q20 Effectivity, complexity and computational aspects of algebraic geometry

Keywords:
algebraic curve; positive characteristic; Belyi map; covering

References:

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