ERRATUM TO
“INFINITE FINITELY GENERATED FIELDS
ARE BIINTERPRETABLE WITH \( \mathbb{N} \)”

THOMAS SCANLON

There is a serious error in the proof of Theorem 3.1, and hence, also of the main theorem of [1]. In the first paragraph of page 903 it is claimed that the class of maps of curves \( C' \to C_{k'} \) as \( k' \) ranges through the degree dividing \( d \) extensions of \( k \) and the map \( C' \to C_{k'} \) also has degree dividing \( d \) may be encoded by an \( \mathcal{L} \)-definable set. As justification, the Riemann-Hurwitz formula is invoked to bound the genus of such a \( C' \), but no argument is adduced to bound the ramification and in the constructions used in the proof no such bound is possible. I do not know an alternate argument for Theorem 3.1.

As such, Pop’s Conjecture remains an open question.

REFERENCES


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