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 $C' \rightarrow C_{k'}$ as k' ranges through the degree dividing d extensions of k and the map $C' \rightarrow C_{k'}$ 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

- [1] T. Scanlon, Infinite finitely generated fields are biinterpretable with $\mathbb{N}$, *J. Amer. Math. Soc.* **21** (2008), no. 3, 893 – 908. MR2393432 (2009f:12009)

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF CALIFORNIA, BERKELEY, EVANS HALL, BERKELEY, CALIFORNIA 94720-3840
E-mail address: scanlon@math.berkeley.edu

Received by the editors December 20, 2010.

2010 *Mathematics Subject Classification.* Primary 12L12; Secondary 03C60.

©2011 American Mathematical Society
 Reverts to public domain 28 years from publication