ERRATUM TO ‘MANN PAIRS’

LOU VAN DEN DRIES AND AYHAN GÜNAYDIN

Lemma 6.1 of [1] is false: a counterexample is given by $E = K = \mathbb{Q}(U)$ and $G = \{1\}$, where $U$ is the multiplicative group of roots of unity. We now modify this lemma so that the rest of [1] is unaffected. Add to the hypothesis of Lemma 6.1 that for each prime number $p$ all $p$th roots of unity in $E^\times$ are in the subgroup $G$. With this change, the proof of the lemma goes through; without it, the first sentence following “Proof of the Claim” is incorrect.

The only direct use of Lemma 6.1 in [1] is in the proof of Lemma 6.2. There is no need to modify Lemma 6.2 or its proof. At the end of that proof, the modified Lemma 6.1 is used with $E,F,k^\times \Gamma_1$ in the role of $E,K,G$.

References


Department of Mathematics, University of Illinois, 1409 W. Green Street, Urbana, Illinois 61801
E-mail address: vddries@math.uiuc.edu

Centro de Matemática e Aplicações Fundamentais, Universidade de Lisboa, Avenida Professor Gama Pinto, 2, 1649-003 Lisboa, Portugal
E-mail address: ayhan@ptmat.fc.ul.pt