Errata to the paper
"Irrationality results for theta functions
by Gel'fond–Schneider's method"

(Acta Arith. 53 (1989), 289–307)

by

Peter Bundschuh (Köln) and Michel Waldschmidt (Paris)

Guy Diaz kindly pointed out to us that our use of Cauchy's inequalities in the middle of p. 300 is incorrect. Therefore Theorem 2.7 on p. 295 should be corrected as follows.

One introduces in Section 2, p. 294, a further positive function r' satisfying $r'(N) < r(N)$ and one replaces, in the third lim sup condition of (2.4), the number $r(N)$ by $r(N) - r'(N)$. Further, in the hypotheses of Theorem 2.7, one replaces the disk $|z| \leq r(N)$ by $|z| \leq r'(N)$.

For the proof on p. 300, in the estimate which follows from Cauchy's inequalities, one replaces $\log r(M)$ by $\log(r(M) - r'(M))$.

Finally, in the proof of Theorem 3.8 on p. 305, one replaces the definition of $R(N)$ by $R(N) = 2(1 + |a|)e^{\varrho N}$.

Mathematisches Institut
Universität zu Köln
Weyertal 86-90
D-50931 Köln, Germany
E-mail: bundschuh@mi.uni-koeln.de

Département de Mathématiques
Université P. et M. Curie (Paris VI)
4, Place Jussieu
F-75252 Paris Cedex 05, France
E-mail: miw@math.jussieu.fr