ERRATA TO "ON A SPECIAL CASE OF WATKINS' CONJECTURE"

MATIJA KAZALICKI AND DANIEL KOHEN

There is an error in Theorem 1.1 of our work [1]. The corrected version should read:

Theorem. *If $E/\mathbb{Q}$ is an elliptic curve of odd* congruence *number, then E has rank zero.*

The mistake arose from a misunderstanding of the paper of Yazadani [2, Theorem 3.8] where he proves an assertion about the congruence number and not the modular degree. The congruence number and modular degree are known to have the same parity for elliptic curves whose conductor is not divisible by 4 and numerical evidence suggests that this is always the case. We also want to note that all proofs (and the rest of the statements) given in our paper remain correct since they are actually about curves with prime conductors where these numbers are known to agree. We would like to thank Professor Sumit Giri for kindly pointing out the mistake to us.

References

1. M. Kazalicki and D. Kohen, *On a special case of Watkins' conjecture*, Proceedings of the American Mathematical Society **146** (2018), no.2, 541–545.
2. S. Yazdani, *Modular abelian varieties of odd modular degree*, Algebra & Number Theory **5** (2011), no. 1, 37–62.

DEPARTMENT OF MATHEMATICS, UNIVERSITY OF ZAGREB, BIJENIČKA CESTA 30, 10000 ZAGREB, CROATIA
E-mail address: matija.kazalicki@math.hr

UNIVERSITÄT DUISBURG-ESSEN, FAKULTÄT FÜR MATHEMATIK
E-mail address: daniel.kohen@uni-due.de