Erratum to: Pairs of boundary slopes with small differences

Kazuhiro Ichihara

Published online: 25 November 2014
© Sociedad Matemática Mexicana 2014

Erratum to: Bol. Soc. Mat. Mex. (2014) 20:363–373 DOI 10.1007/s40590-014-0021-y

The author wants to do the following corrections to his original paper:

1. The second boundary slope in Theorem 1 is described inappropriately as the fraction seems to be reducible by 2. The value of the fraction is correct, and so Theorem 1 is completely true.
2. Corollary 2 was not true for the second surface. It should be corrected as: Let F be the essential surface constructed in the proof of Theorem 1. Then F has a single boundary component, and must be non-orientable.
3. Proposition 2 was also not true for the second surface. It should be corrected as: For essential surfaces F and F' constructed in the proof of Theorem 1, the values $\frac{-\chi}{\mu_s}$ are both equal to 1. This implies that their Euler characteristics are $-n$ and $-n + 7$, respectively. In particular, the Euler characteristic of F is equal to the denominators of their boundary slopes.
4. The comments just after Proposition 2 were not correct as was Proposition 2. In fact, paper [1] has been updated recently, and it is now including extensions to Theorem 1, Corollary 2, and Proposition 2. Please refer [1] for detailed explanations.

These errors in the original manuscript were kindly pointed out by Jason Callahan. The author would like to thank him very much.

The online version of the original article can be found under doi:[10.1007/s40590-014-0021-y](https://doi.org/10.1007/s40590-014-0021-y).

K. Ichihara (✉)
Department of Mathematics, College of Humanities and Sciences, Nihon University,
3-25-40 Sakurajosui, Setagaya-ku, Tokyo 156-8550, Japan
e-mail: ichihara@math.chs.nihon-u.ac.jp

Reference

1. Callahan, J.: Denominators and Differences of Boundary Slopes for $(1,1)$ -Knots (preprint).
[arXiv:1301.6298v2](#)