Correction to: A higher Boltzmann distribution

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Published online: 24 July 2021

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Correction to: J Appl. and Comput. Topology

<https://doi.org/10.1007/s41468-017-0006-9>

The original publication of the article Catanzaro et al. (2017) contained the following minor errors which we take this opportunity to correct:

- In Remark 1.11:
The statement, “Conditions (a)–(c) are equivalent to conditions (a’), (b) and (c)” should be replaced by “Conditions (a)–(c) imply conditions (a’), (b) and (c)”
- In Remark 2.7:
The sentence beginning with, “Let $T_{d-1}(X; \mathbb{Z}) \subset \dots$ ” until the end of the remark should be removed.
- In the last paragraph of the proof of Theorem A:
The text
“...and ϕ_L corresponds to A_S . Then the determinant of A_S is given up to sign by $\tau'_L = \tau_L/\theta_X$ (cf. Remark 2.7) and the prefactor is given by the reciprocal of $\nabla' := \sum_L \tau'_L$. Hence, the desired splitting is given by

$$\frac{1}{\nabla'} \sum \tau'_L \psi_L = \frac{1}{\nabla} \sum \tau_L \psi_L . \quad ”$$

should be replaced by the text

“...and A_S corresponds to $C_{d-1}(L) \rightarrow C_{d-1}(X)/B_{d-1}(X)$. Then the determinant

The original article can be found online at <https://doi.org/10.1007/s41468-017-0006-9>.

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of A_S is given up to sign by a_L (cf. Remark 2.7), and $t_S = \tau_L$. Hence, the desired splitting is given by

$$\frac{1}{\nabla} \sum \tau_L \psi_L . \quad "$$

- In Theorem 3.3, the text:
“of rank m $\mathcal{O} \mathbb{R}$ ”
should be replaced by the text
“of rank m defined over $\mathbb{R}$ ”

References

Catanzaro, Michael J., Chernyak, Vladimir Y., Klein, John R.: A higher Boltzmann distribution. *J. Appl. Comput. Topol.* **1**(2), 215–240 (2017). <https://doi.org/10.1007/s41468-017-0006-9>

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