Correction to: Bounds on Signless Laplacian Eigenvalues of Hamiltonian Graphs

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Published online: 30 January 2021

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Correction to: Bull Braz Math Soc, New Series

<https://doi.org/10.1007/s00574-020-00211-y>

In our original paper the incorrect labelling of the number of vertices of the line graph $L(G)$ in the proof of Theorem 2 has led to the inequality

$$q_n \leq \frac{\bar{d}^2 - 4}{\bar{d} - 2} - 2 - \sqrt{\left(\frac{\bar{d}^2 - 4}{\bar{d} - 2} - 6\right)^2 + 8(\bar{d} - 2)},$$

which does not necessarily hold. The size of $L(G)$ is m and therefore its least eigenvalue should have been labelled as $\lambda_m(L(G))$ (not $\lambda_n(L(G))$). Below we indicate the necessary changes implied by this glitch.

- All the statements regarding the upper bound on the least signless Laplacian eigenvalue of Hamiltonian graphs should be removed. The statements regarding the signless Laplacian index of Hamiltonian graphs remain.

The original article can be found online at <https://doi.org/10.1007/s00574-020-00211-y>.

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- Example 2 and 3 should be modified accordingly. Non-Hamiltonicity is now proved only using the inequality (4) from Corollary 3.

The original article has been updated.

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