Three-candidate competition when candidates have valence: the base case

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In Evrenk (2008, Proposition 1) “Three-candidate competition when candidates have valence: the base case” (DOI 10.1007/s00355-008-0306-z) the necessary(sufficient) condition for LNE, given as

$$\frac{-2f'(p_2^* + L^{-1}(\delta_3))}{f(p_2^* + L^{-1}(\delta_3))} \geq (>) \frac{L''(0)}{[L'(L^{-1}(\delta_3))]^2} + \frac{L''(0)}{[L'(L^{-1}(\delta_1))]^2},$$

is wrong. The correct condition is

$$\frac{-2f'(p_2^* + L^{-1}(\delta_3))}{f(p_2^* + L^{-1}(\delta_3))} \geq (>) \frac{L''(0)}{[L'(L^{-1}(\delta_3))]} + \frac{L''(0)}{[L'(L^{-1}(\delta_1))]},$$

i.e., the expression $[L'(L^{-1}(\delta_3))]$ at the denominator of the terms on the right hand side should not have been raised to the power two. Accordingly, the condition in Remark 1 should read as “...becomes $\frac{f'(-L^{-1}(\delta_1))}{f(L^{-1}(\delta_1))} > \frac{L''(0)}{[L'(L^{-1}(\delta_1))]}$ ”.

This error does not affect any of the qualitative or quantitative results in the paper.

It should also be noted that there is a typo in Sect. 3 (Discussion and conclusion). In the example that shows PSNE exists under an asymmetric voter density, the boundaries should be given as $\sqrt{\delta_1} \in \left[\frac{44}{100}, \frac{48}{100}\right]$ where in the text it says $\sqrt{\delta_1} \in \left[\frac{4}{10}, \frac{48}{100}\right]$.

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