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Publisher Correction: Multistability in a star network of Kuramoto-type oscillators with synaptic plasticity

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Correction to: *Scientific Reports* <https://doi.org/10.1038/s41598-021-89198-0>, published online 10 May 2021

The original version of this Article contained errors.

In Figure 7, the x-axis labels, “configuration number, n” did not display correctly and was incorrectly given as “configuration num er, n”.

The original Figure 7 and accompanying legend appear below.

Additionally, there were errors in the Reference list.

Reference 42 was incorrectly given as:

42. Khaledi Nasab, A., Kromer, J. & Tass, P. Long-lasting desynchronization of plastic neural networks by random reset stimulation. *Front. Physiol.* (in press) (2020).

Reference 49 was incorrectly given as:

49. Pfeifer, K. J. *et al.* Coordinated reset vibrotactile stimulation induces sustained cumulative benefits in Parkinson’s disease. *Front. Physiol.* (Under review) (2021).

The correct References are listed below:

42. Khaledi Nasab, A., Kromer, J. & Tass, P. Long-lasting desynchronization of plastic neural networks by random reset stimulation. *Front. Physiol.* 11, 622620. <https://doi.org/10.3389/fphys.2020.622620> (2021).

49. Pfeifer, K. J. *et al.* Coordinated reset vibrotactile stimulation induces sustained cumulative benefits in Parkinson’s disease. *Front. Physiol.* 12, 624317. <https://doi.org/10.3389/fphys.2021.624317> (2021).

The original Article has been corrected.

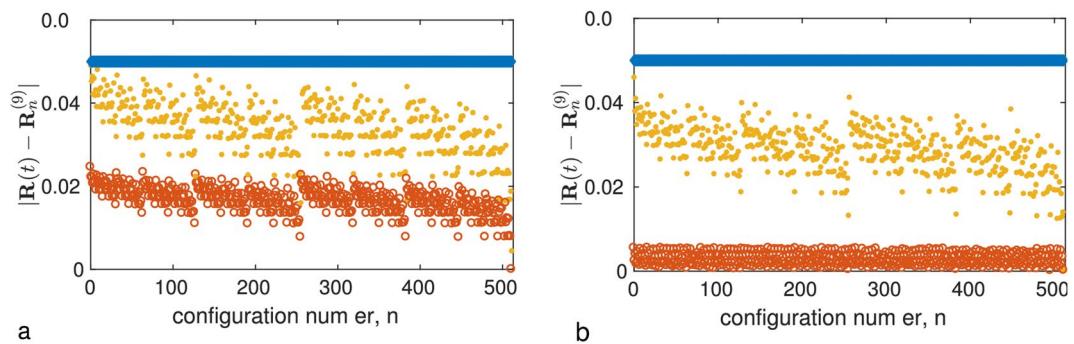


Figure 7. Numerical simulation of Eqs. (3) and (6) for a nine-leaf star network with 512 different initial conditions $\mathbf{R}(0)$, each of which is close to the state $\mathbf{R}_n^{(9)}$ of a particular predicted asymptotic configuration with number $n = 0, \dots, 511$. Panels (a) and (b) correspond to the sigmoid boundary function with $\mu = 0.01$ and the Heaviside step boundary function, respectively. The frequencies $(\omega_1, \dots, \omega_8, \omega_0, \omega_9)$, written in ascending order, are equidistantly distributed in the interval $[0.6, 1]$. The states $\mathbf{R}(0)$ are chosen so that the initial distances $|\mathbf{R}(0) - \mathbf{R}_n^{(9)}|$ shown in blue squares are the same for all configurations. The yellow dots show the values of the corresponding distances $|\mathbf{R}(t) - \mathbf{R}_n^{(9)}|$ at time $t = 300$, and the red circles at time $t = 76,000$. Parameter values: $\varepsilon = 0.001$, $\tau_+ = 0.15$, $\tau_- = 0.3$, and $\alpha = 1$.



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