



Correction

# Correction to: Relative effectiveness of weak periodic excitations in suppressing homoclinic/heteroclinic chaos

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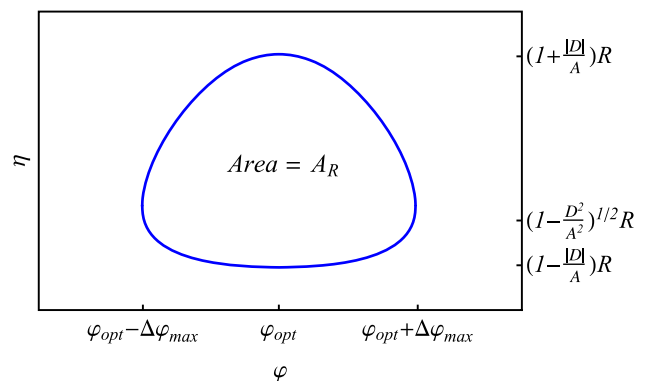
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Equation (13) and Fig. 1 were not correct in the published article. This erratum provides their correct versions:

$$\begin{aligned}
 A_R &\equiv \int_{\varphi_{opt}-\Delta\varphi_{max}}^{\varphi_{opt}+\Delta\varphi_{max}} (\eta_{upper} - \eta_{lower}) d\varphi = \frac{2|D|R}{A} \int_{\pi-\arcsin(|D|/A)}^{\pi+\arcsin(|D|/A)} \sqrt{1 - \frac{A^2}{D^2} \sin^2 \varphi} d\varphi \\
 &= \frac{4|D|R}{A} \mathbf{E} \left( \arcsin \left( \frac{|D|}{A} \right), \frac{A}{|D|} \right) \\
 &= \frac{4|D|R}{A} \left[ \sqrt{\frac{A}{|D|}} \mathbf{E} \left( \sqrt{\frac{A}{|D|}} \arcsin \left( \frac{|D|}{A} \right), \frac{|D|}{A} \right) - \left( \frac{A}{|D|} - 1 \right) \arcsin \left( \frac{|D|}{A} \right) \right], \tag{1}
 \end{aligned}$$

where  $\mathbf{E}(u, m)$  is the elliptic integral of the second kind and  $m$  is the parameter.

This does not, however, affect any result of the article.



**Fig. 1** Generic boundary function (cf. Eqs. (11, 12)) encircling the region where homoclinic/heteroclinic bifurcations are frustrated in the  $\varphi - \eta$  parameter plane

The original article can be found online at <https://doi.org/10.1140/epjb/e2002-00375-6>.

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