

CORRECTION

Correction: Bounds on Transient Instability for Complex Ecosystems

Francesco Caravelli, Phillip P. A. Staniczenko

The following information is missing from the funding statement: PPAS was supported by an AXA Research Fellowship, British Ecological Society grant 4785/5824 and the National Socio-Environmental Synthesis Center (SESYNC)—NSF award DBI-1052875.

The ϵ labeling the key for Fig 1 should be replaced with the symbol r . The authors have provided a corrected Figure here.



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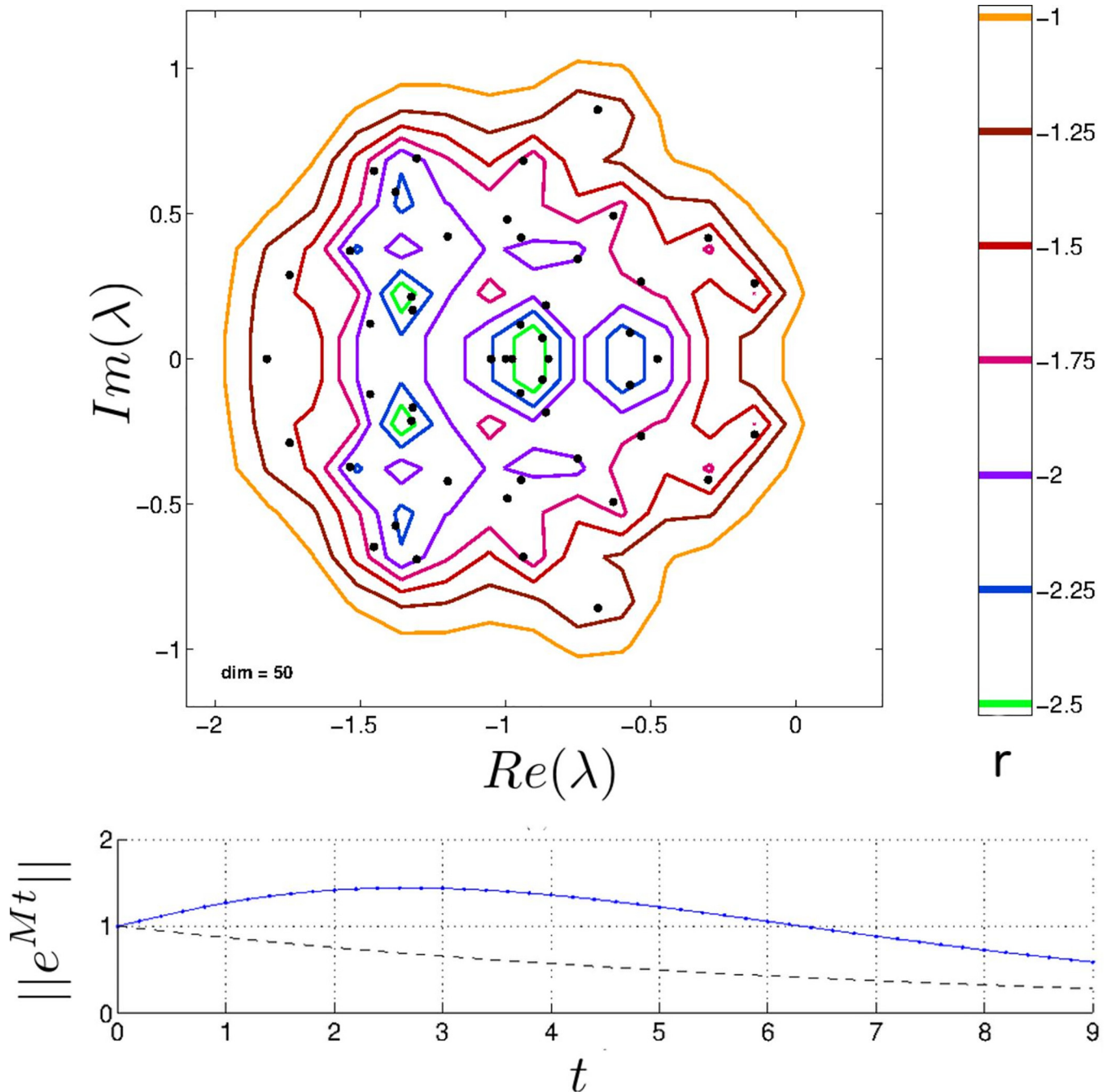


Fig 1. Top: Pseudospectrum of a random community matrix with $S = 50$, $C = 0.1$, $\mu = 1$ and $\sigma = 0.3$, which is asymptotically stable. Contours in the complex plane illustrate the effect on eigenvalues of the community matrix M for noise of magnitude $\epsilon = 10r$ [31]. The contour for $\epsilon = 0.1$ (i.e., $r = -1$) crosses the imaginary axis, implying that the pseudospectral abscissa is positive and so transient instability is observable. Bottom: Dynamics of $\|e^{Mt}\|$ (arbitrary units of time, see Eq (9)). The dashed curve represents dynamics from eigenvalue analysis, whereas the solid curve represents dynamics predicted by positive ϵ -pseudospectral abscissa for $\epsilon \approx 0.1$.

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Reference

1. Caravelli F, Staniczenko PPA (2016) Bounds on Transient Instability for Complex Ecosystems. PLoS ONE 11(6): e0157876. doi:10.1371/journal.pone.0157876 PMID: 27327511