

Pattern formation in multiplex networks

-Supplementary information-

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ABSTRACT

Supplementary movies showing the formation of Turing patterns in multiplex networks are available.

Supplementary Movie S1 shows the formation of Turing pattern for the Mimura-Murray model with $\sigma^{(v)} = \sigma^{(u)} = 0.12$ on a multiplex network with scale-free layers of $N = 1,000$ nodes and mean degrees $\langle k^{(v)} \rangle = 152$ and $\langle k^{(u)} \rangle = 20$. Nodes are ordered according to decreasing degrees $k^{(u)}$. This movie demonstrates in time the pattern formation mechanism that is described in Fig. 3 (b-e). Nodes denoted by stars are the same nodes that are denoted by stars in Fig. 3.

Supplementary Movie S2 shows the formation of Turing pattern for the Mimura-Murray model with $\sigma^{(v)} = \sigma^{(u)} = 0.12$ on a multiplex network with scale-free layers of $N = 1,000$ nodes and mean degrees $\langle k^{(v)} \rangle = 500$ and $\langle k^{(u)} \rangle = 20$. Nodes are ordered according to decreasing degrees $k^{(u)}$. This movie demonstrates in time the pattern formation mechanism that is described in Fig. 5 (a-f).