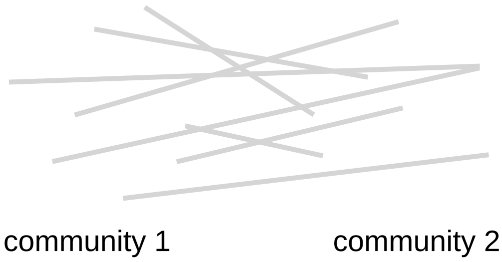
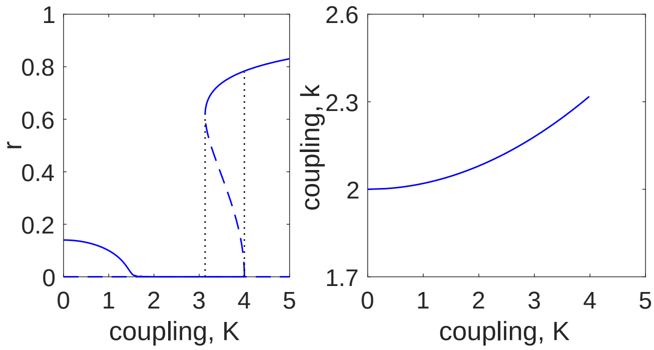
Competitive suppression of synchronization and nonmonotonic transitions in oscillator communities with distributed time delay

D , A M , C , B , C 80309, A
D , M , C , H , C 06106, A


community 1
community 2


r
0
0.2
0.4
0.6
0.8
1
0
1
2
3
4
5
coupling, K
coupling, k
1.7
2
2.3
2.6
0
1
2
3
4
5
coupling, K

$$(\; + \;)\overline{w} \; (\;) = ^{-} (\;), \qquad (\quad)$$

$$w \; = \; - w \; . \qquad (\quad 0)$$

APPENDIX B: NUMERICAL VALIDATION OF THE LOW-DIMENSIONAL EQUATIONS

$$\theta \; = \omega \; + \; - \theta \; + K \; \rho \; - \theta \; , \qquad (\quad)$$

$$w \; = (\; - w \;)/ \; , \qquad (\quad)$$

( ) = $^{\alpha}$, ( ) = $^{\alpha}$. ( ) ( )

$$K = \kappa + \frac{}{- \kappa}, \quad \omega =$$