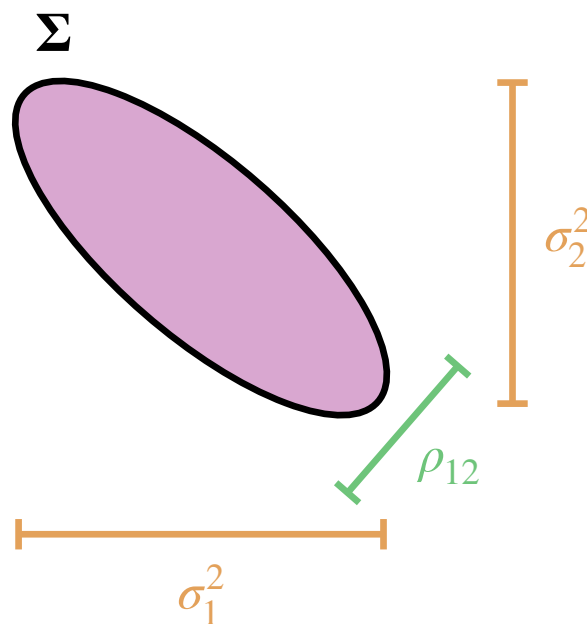
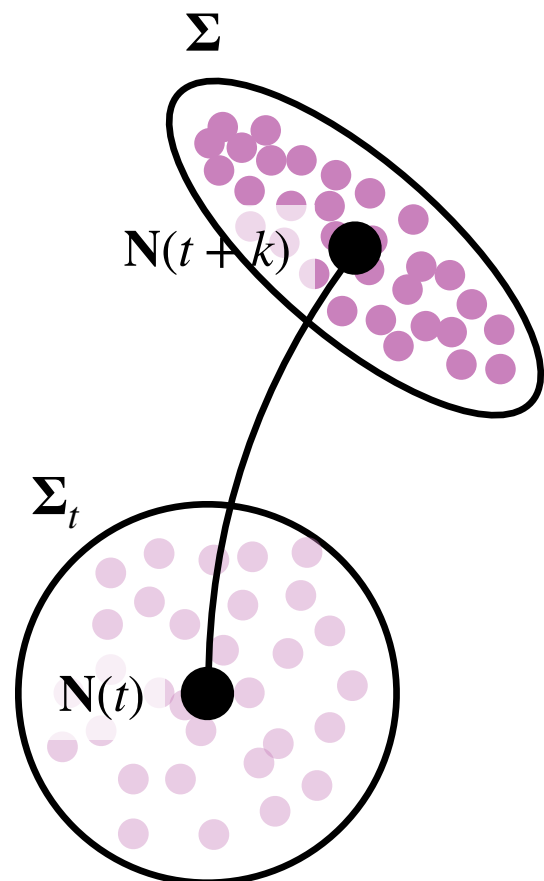


a

$$\log |\Sigma| = \log \sigma_1^2 + \log \sigma_2^2 + \log(1 - \rho_{12}^2)$$

Community
sensitivity

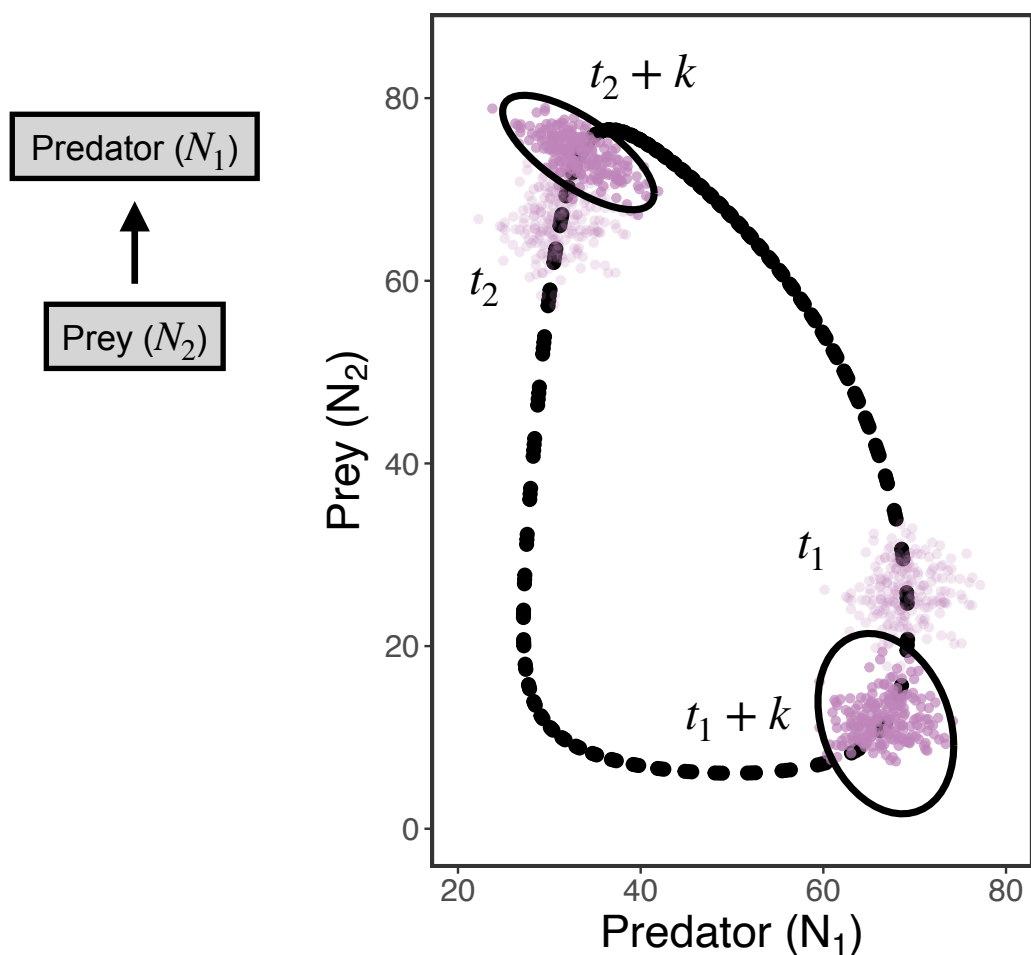
Contribution of
individual species

Contribution of
species correlations

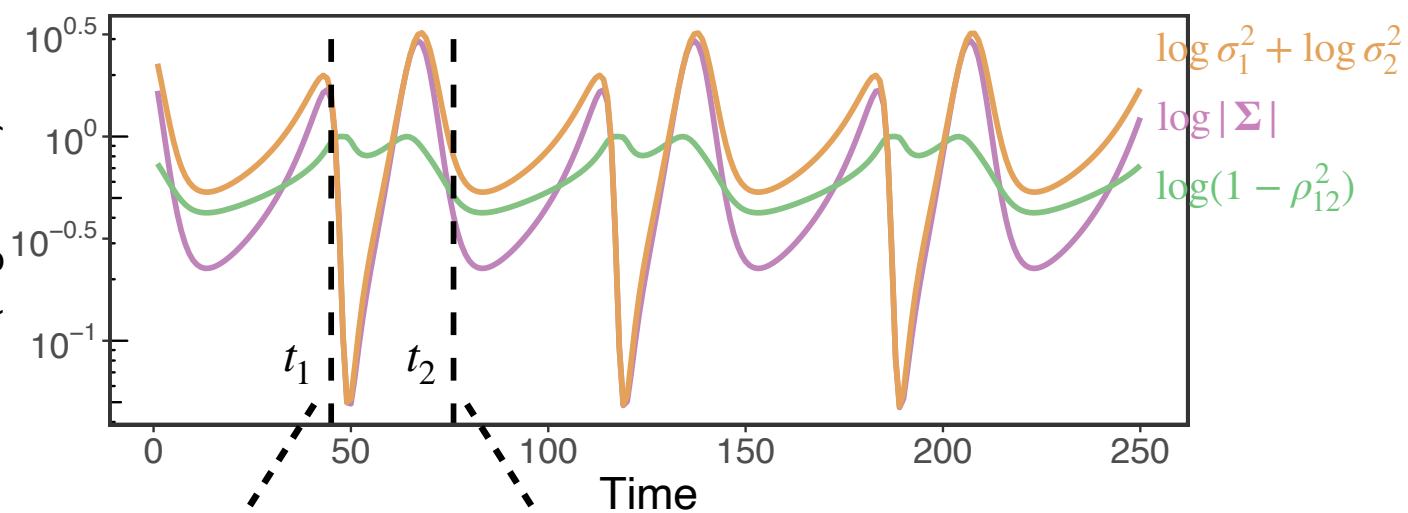
Contribution of
species correlations
(S species):

$$|\mathbf{P}| = \frac{|\Sigma|}{\prod_{i=1}^S \sigma_i^2}$$

$$\log |\mathbf{P}| = \log |\Sigma| - \sum_{i=1}^S \log \sigma_i^2$$

b

Community sensitivity
decomposition
(log scale)



Community sensitivity
dominated by
individual species

Community sensitivity
dominated by
species correlations