(a) Potential external drivers



Extreme temperature Low spatial heterogeneity



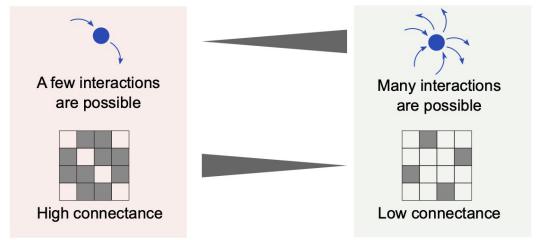
Optimal temperature
High spatial heterogeneity

(b) Mechanism

Interaction capacity

$$2 \times \sum_{j=1}^{S} \sum_{i=1, j \neq i}^{S} |IS_{i \rightarrow j}| / S$$

 $\frac{N_{link}}{S^2}$

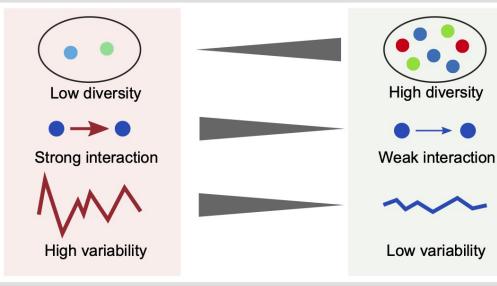


(c) Outcomes in ecological communities

Community diversity

Interaction strength per link

Temporal variability



(d) Example communities



e.g., Desert

e.g., Tropical forest