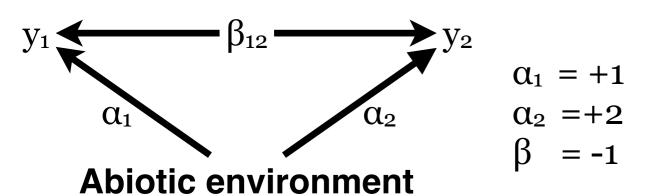
A. Defining a small network



C. Expected co-occurrence rates

Species 1 Absent Present Absent 5% 15% Species 2 Present 40% 40%

B. Solving the network

$$\frac{\alpha_1 y_1}{P[0 \ 0]} = e^{(+0)} + \frac{\alpha_2 y_2}{P[0 \ 0]} = e^{(-0)} / Z$$

$$P[y_1 \ 0] = e^{(-0)} + \frac{\alpha_2 y_2}{P[0 \ 0]} = e^{(-0)} / Z = e^{(-0)} / Z$$

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D. Expected co-occurrence without competition ($\beta_{12}=0$)

Species 1

Absent Present

Species 2	Absent	3%	9%
	Present	24%	64%