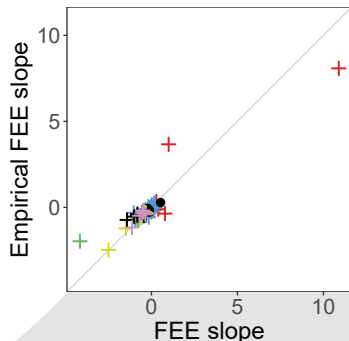


Effective interaction
from one- and two-species
communities

$$\phi_{ij} = \frac{\varepsilon_{ij}(0) F_j(0)}{\sum_{k \neq i} F_k^2(0)}$$



Ecological data sets:

- + Above-ground plant biomass
- + Phytoplankton biomass
- + Bacterial xylose oxidation
- + Bacterial starch hydrolysis
- + Bacterial butyrate secretion
- + Bacterial pyoverdine secretion

Genetic data set:

- *E. coli* fitness

expected from one- and two-species communities, $b_i \approx \sum_{j \neq i} \phi_{ij}$

