

Trait complementary =0.25

Trait complementary =0.5

Trait complementary =1

Higher trophic level

Higher trophic level

Higher trophic level

Late diversification, weak
phylogenetic signal ($\rho = 1e-04$)

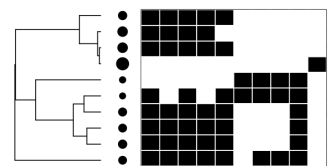
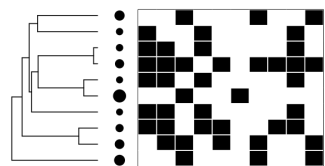
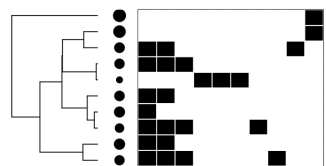
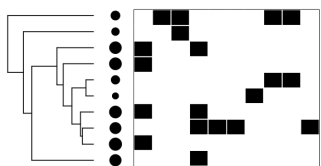
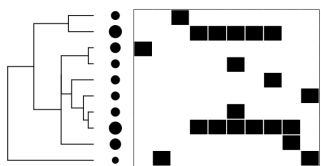
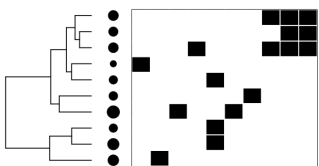
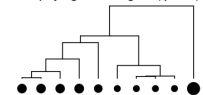
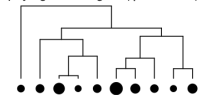
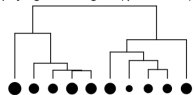
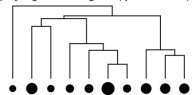
Early diversification, strong
phylogenetic signal ($\rho = 5$)

Late diversification, weak
phylogenetic signal ($\rho = 1e-04$)

Early diversification, strong
phylogenetic signal ($\rho = 5$)

Late diversification, weak
phylogenetic signal ($\rho = 1e-04$)

Early diversification, strong
phylogenetic signal ($\rho = 5$)



$\rho = 1e-04$

$\rho = 1e-04$

$\rho = 1e-04$

$\rho = 1e-04$

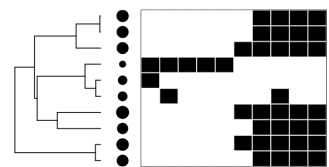
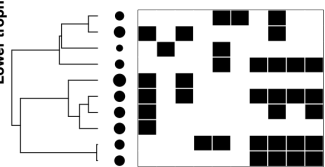
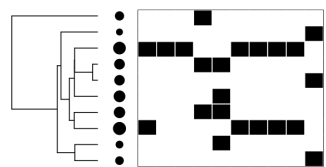
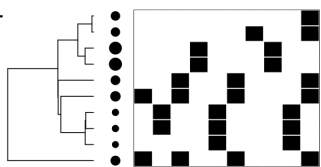
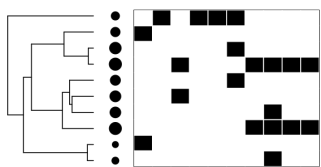
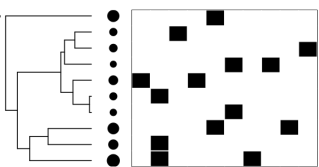
$\rho = 1e-04$

$\rho = 1e-04$

Lower trophic level

Lower trophic level

Lower trophic level



$\rho = 1$ (Brownian motion)

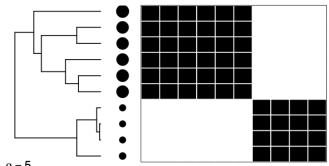
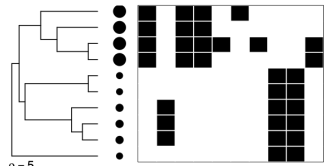
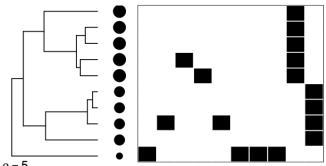
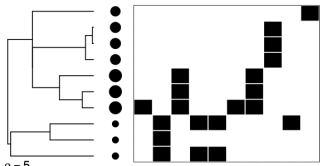
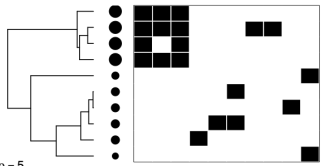
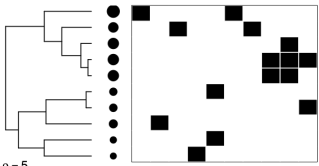
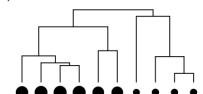
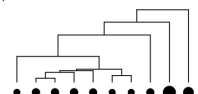
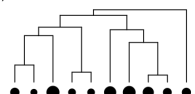
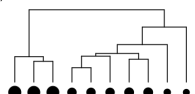
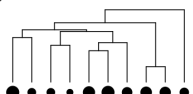
$\rho = 1$ (Brownian motion)

$\rho = 1$ (Brownian motion)

$\rho = 1$ (Brownian motion)

$\rho = 1$ (Brownian motion)

$\rho = 1$ (Brownian motion)



$\rho = 5$

$\rho = 5$

$\rho = 5$

$\rho = 5$

$\rho = 5$

$\rho = 5$