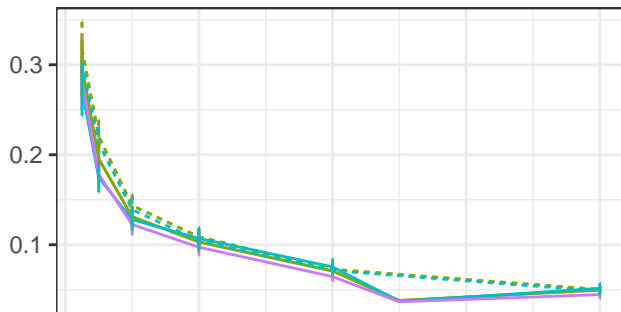
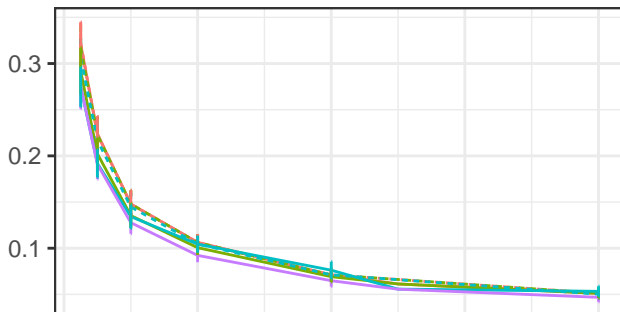
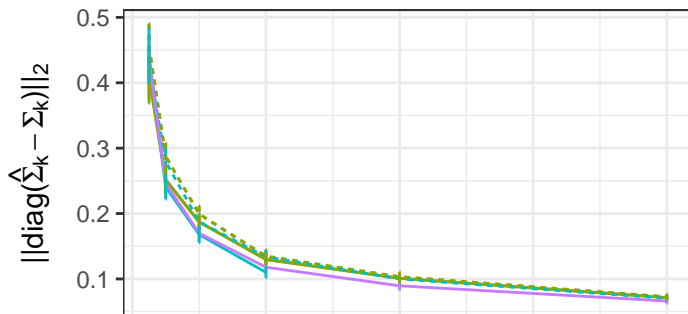
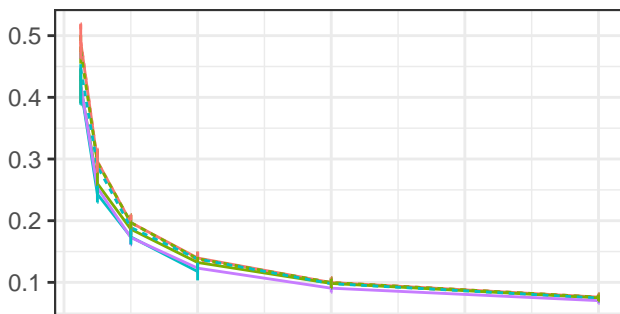
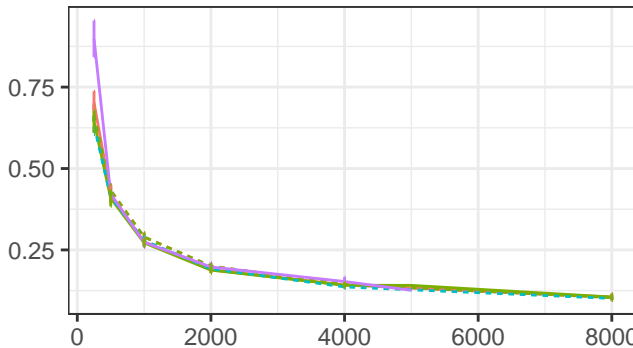
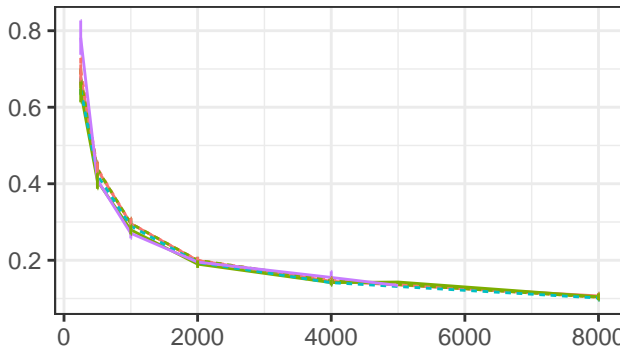
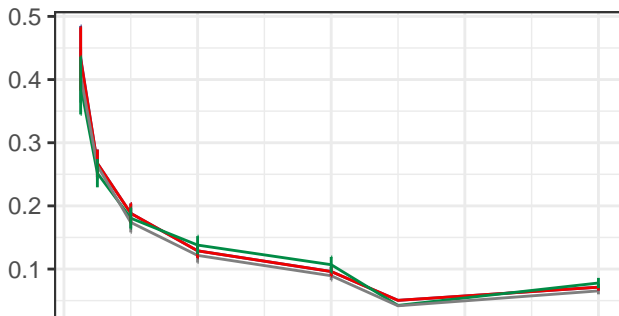
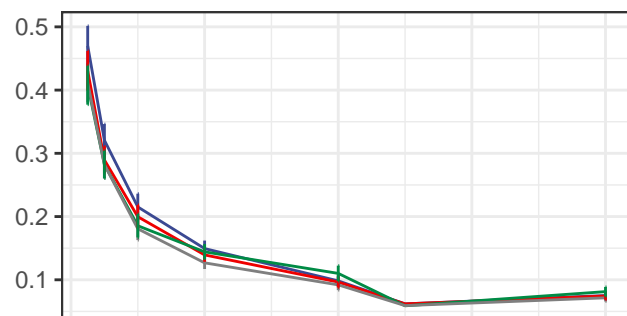
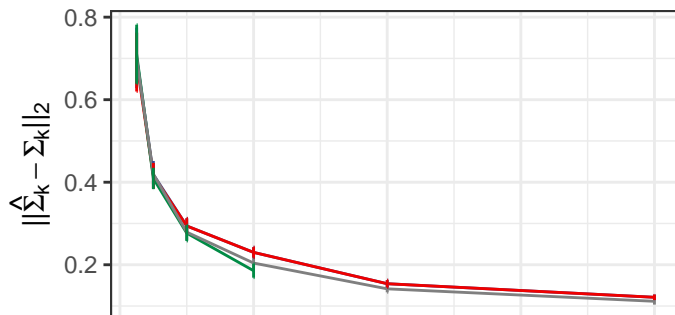
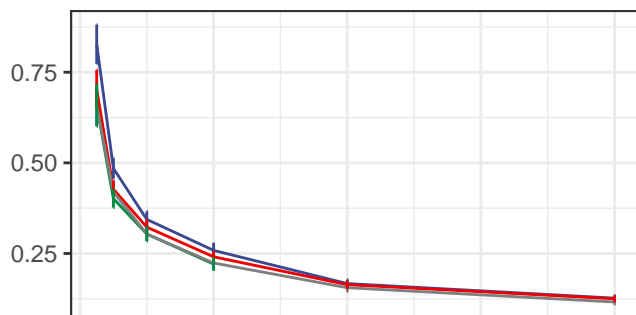
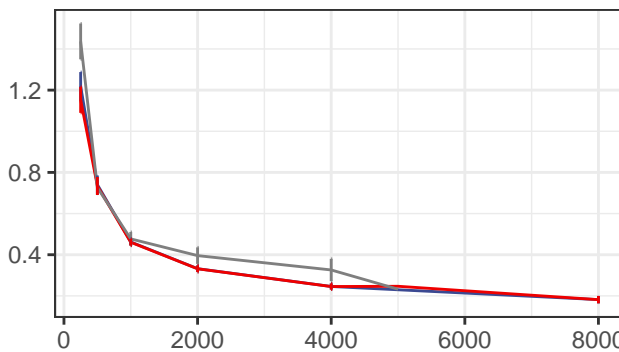
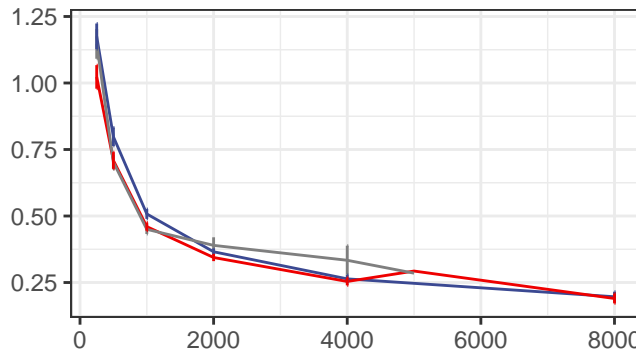


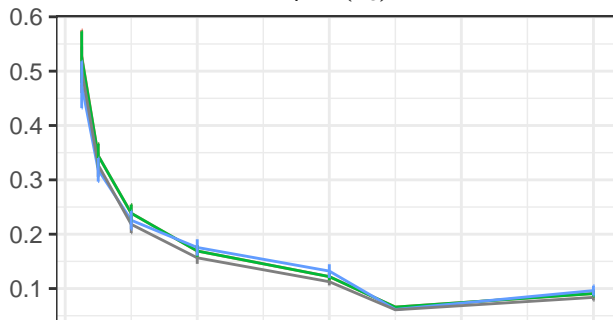
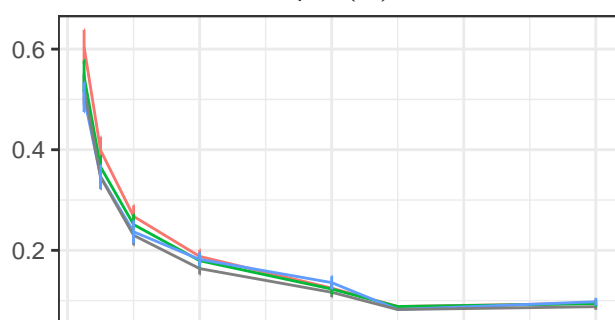
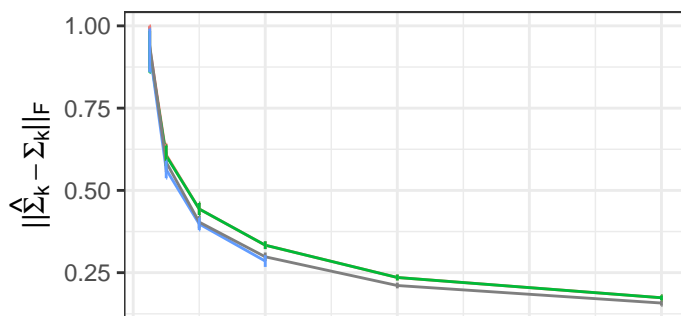
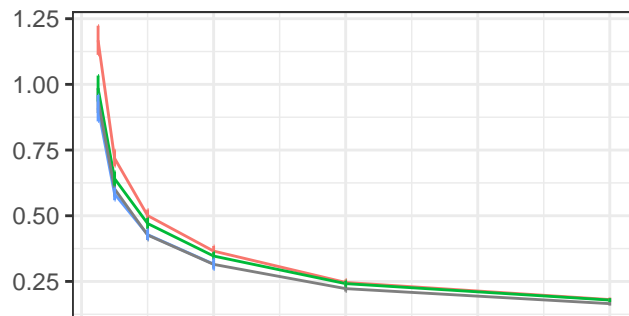
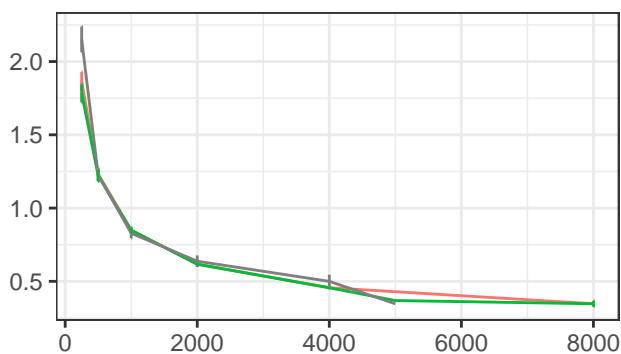
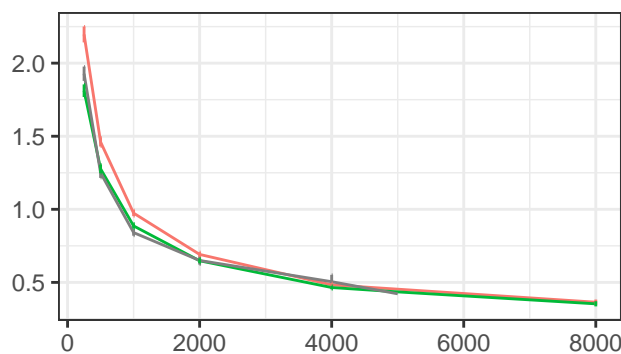
$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$  $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_E)$ 

n

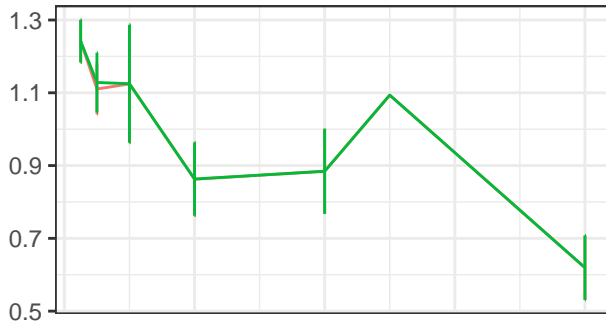
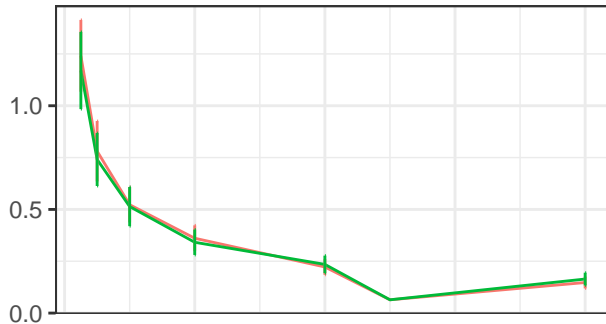
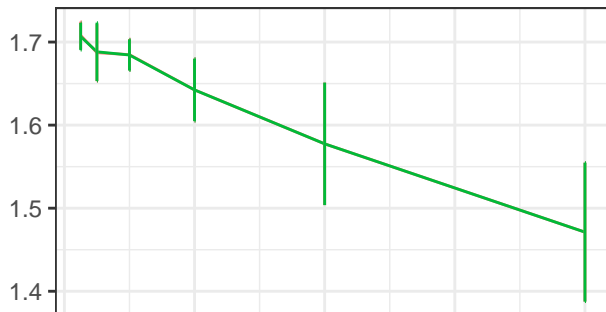
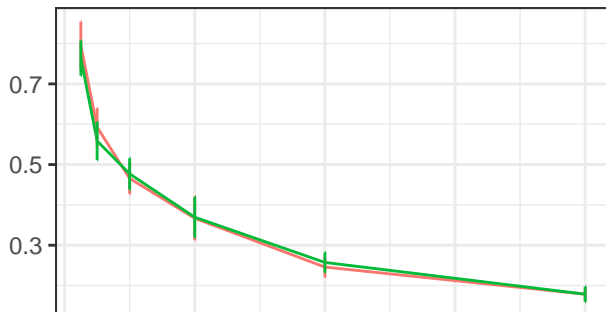
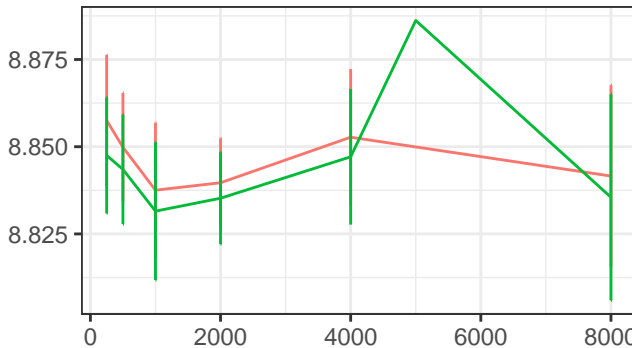
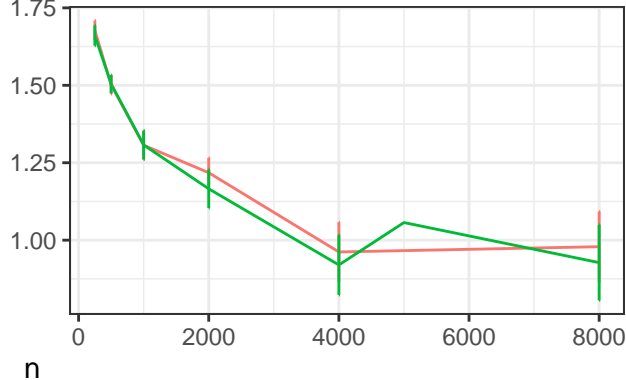
— Multivariate - - - Univariate Method — HE — REHE — REML — GEMMA

$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$  $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_E)$  n

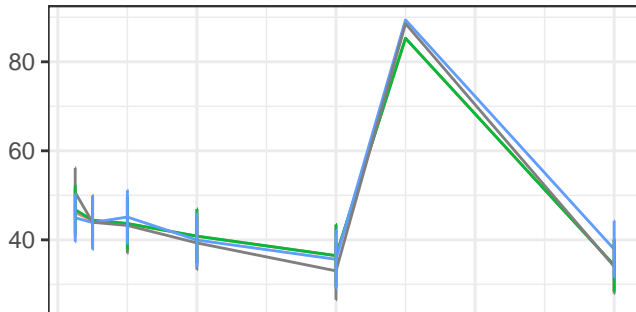
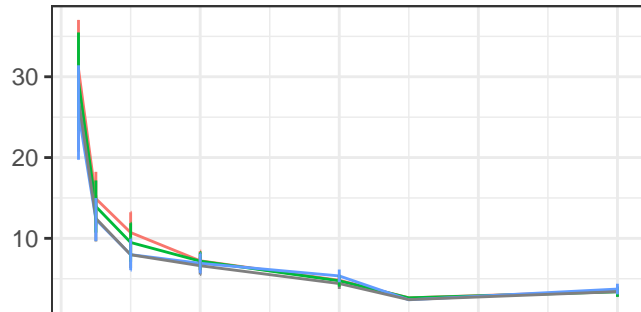
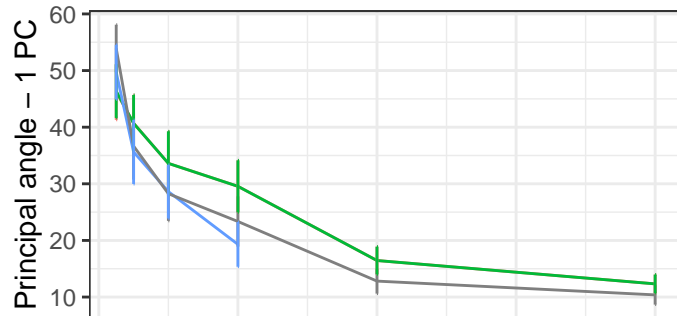
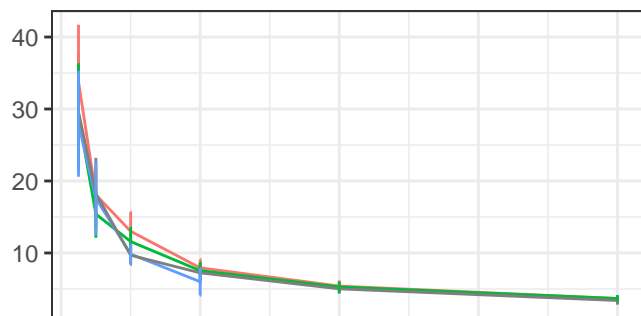
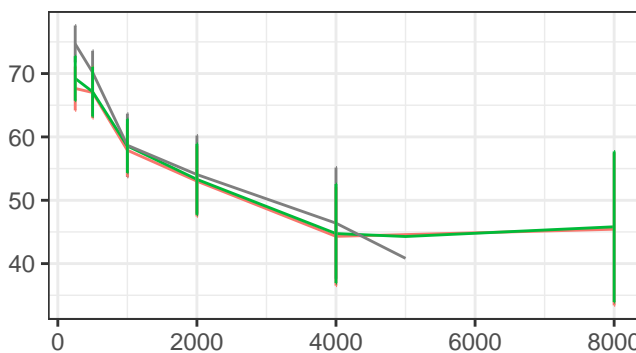
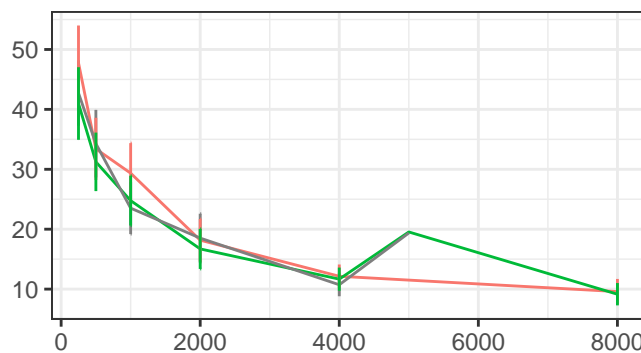
Method mvHE mvREHE mvREML NA

$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$  $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_E)$  n

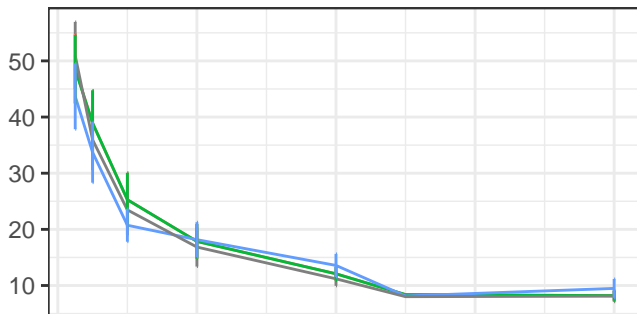
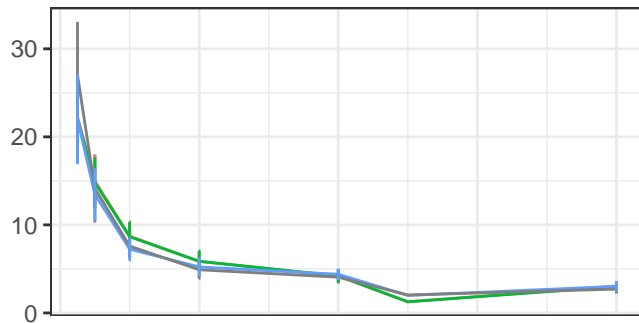
Method mvHE mvREHE mvREML NA

$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$  $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_E)$ 

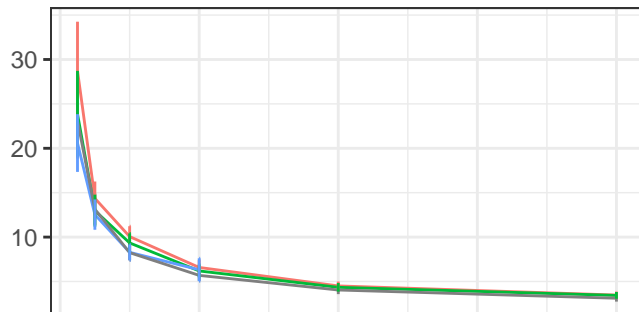
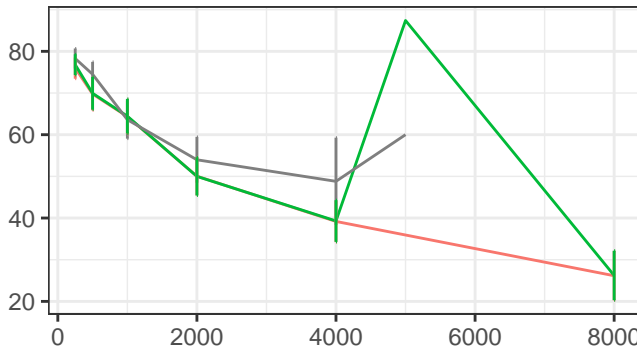
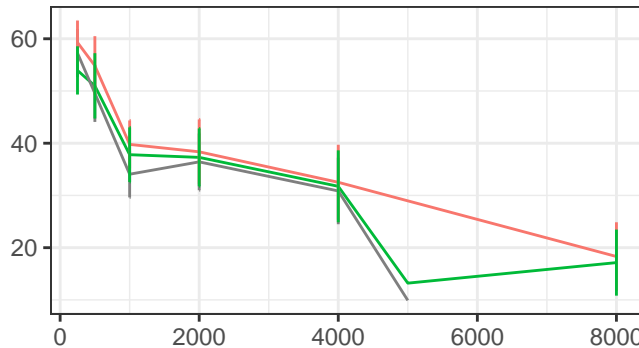
Method — mvHE — mvREHE — mvREML — NA

$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$  $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_E)$ 

Method mvHE mvREHE mvREML NA

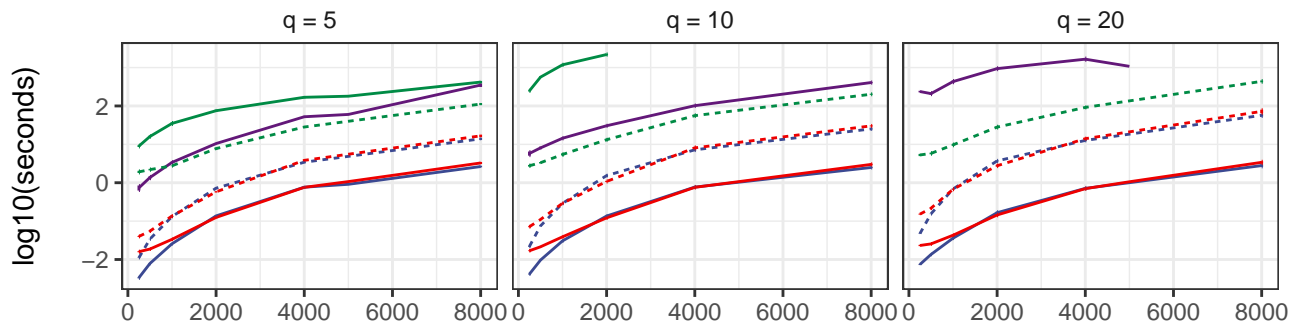
$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$

Max principal angle - 3 PCs

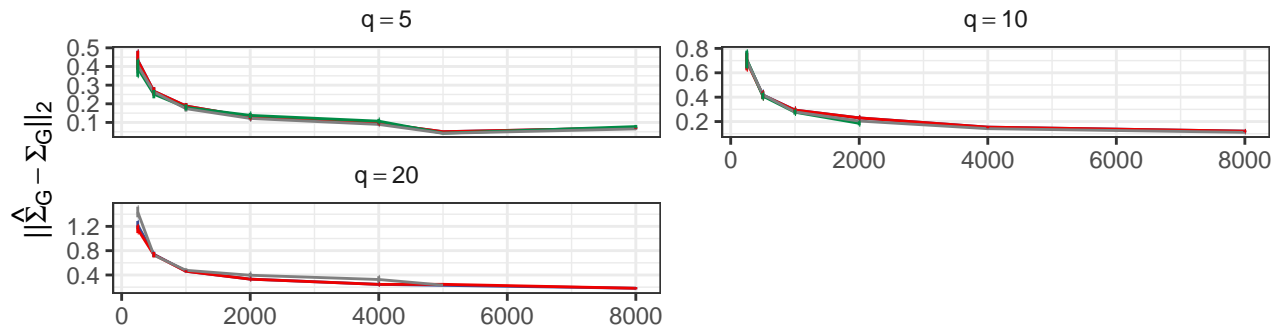
 $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_E)$ 

Method mvHE mvREHE mvREML NA

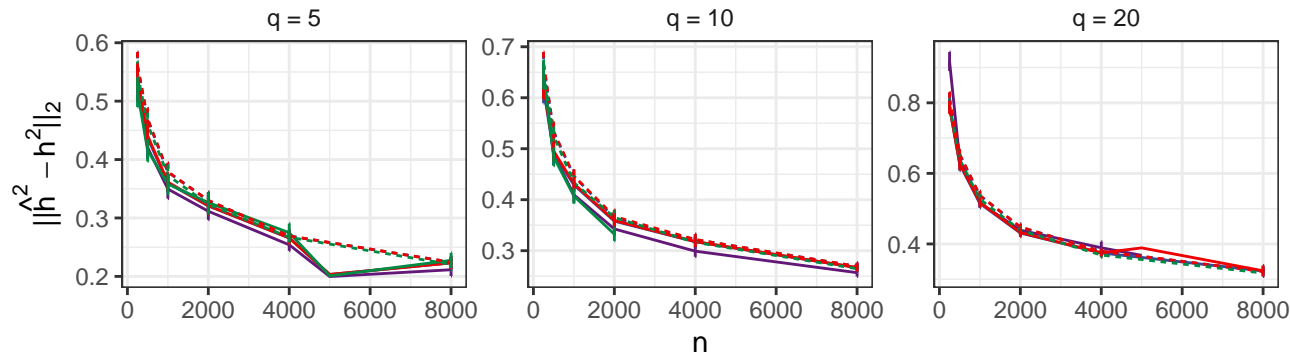
a



b



c



— Multivariate - - - - Univariate Method — HE — REHE — REML — GEMMA