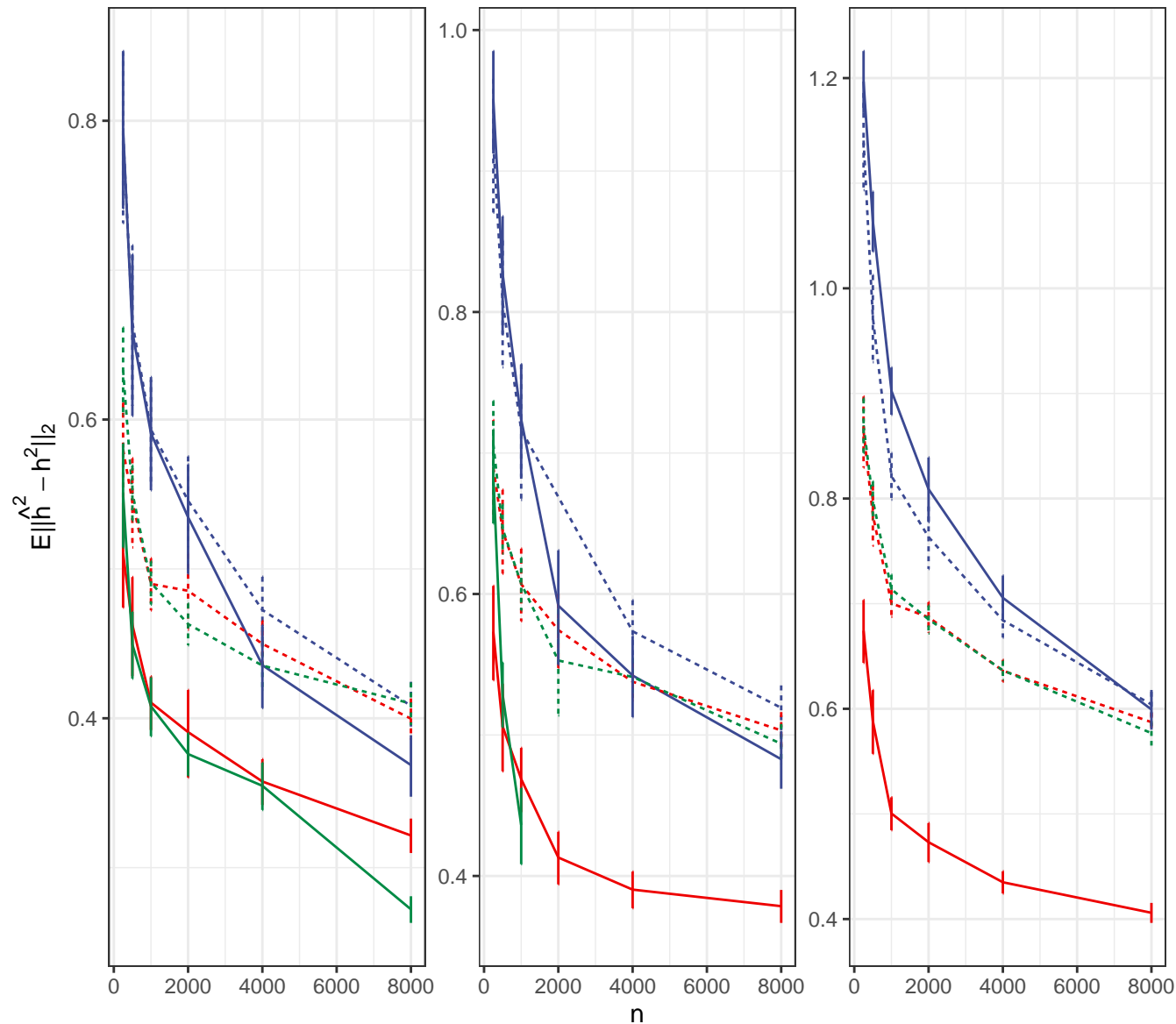


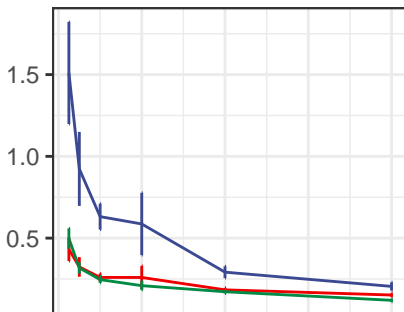
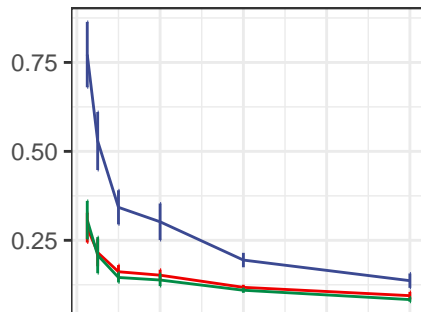
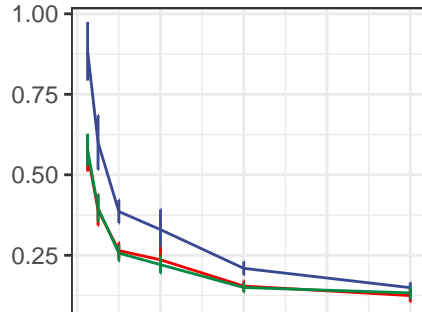
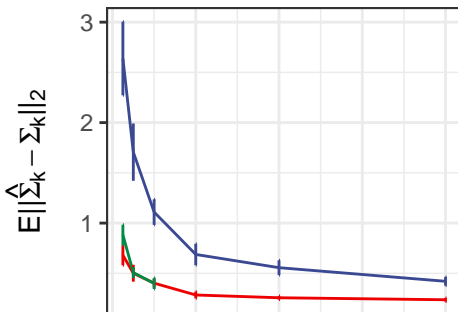
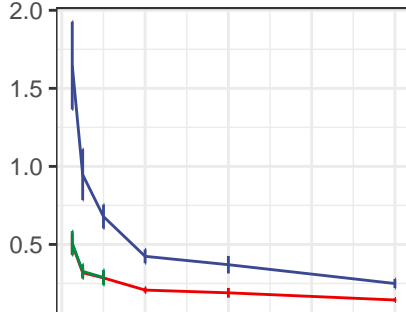
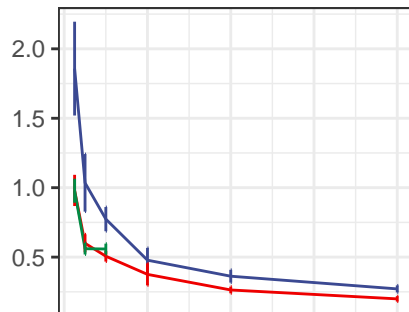
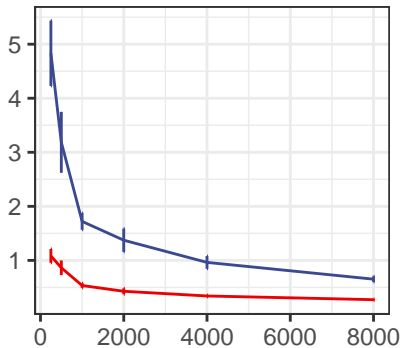
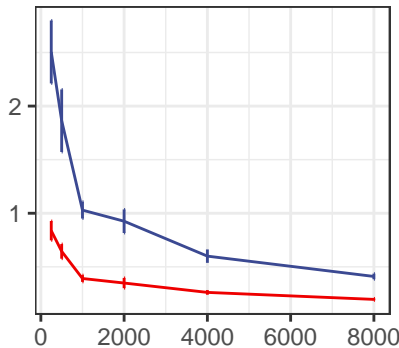
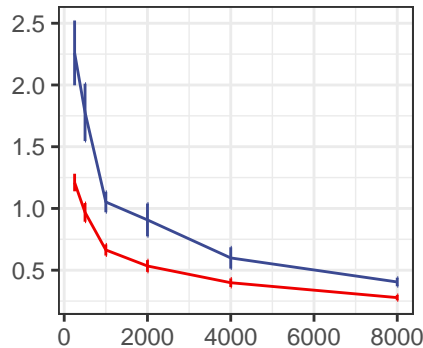
q = 5

q = 10

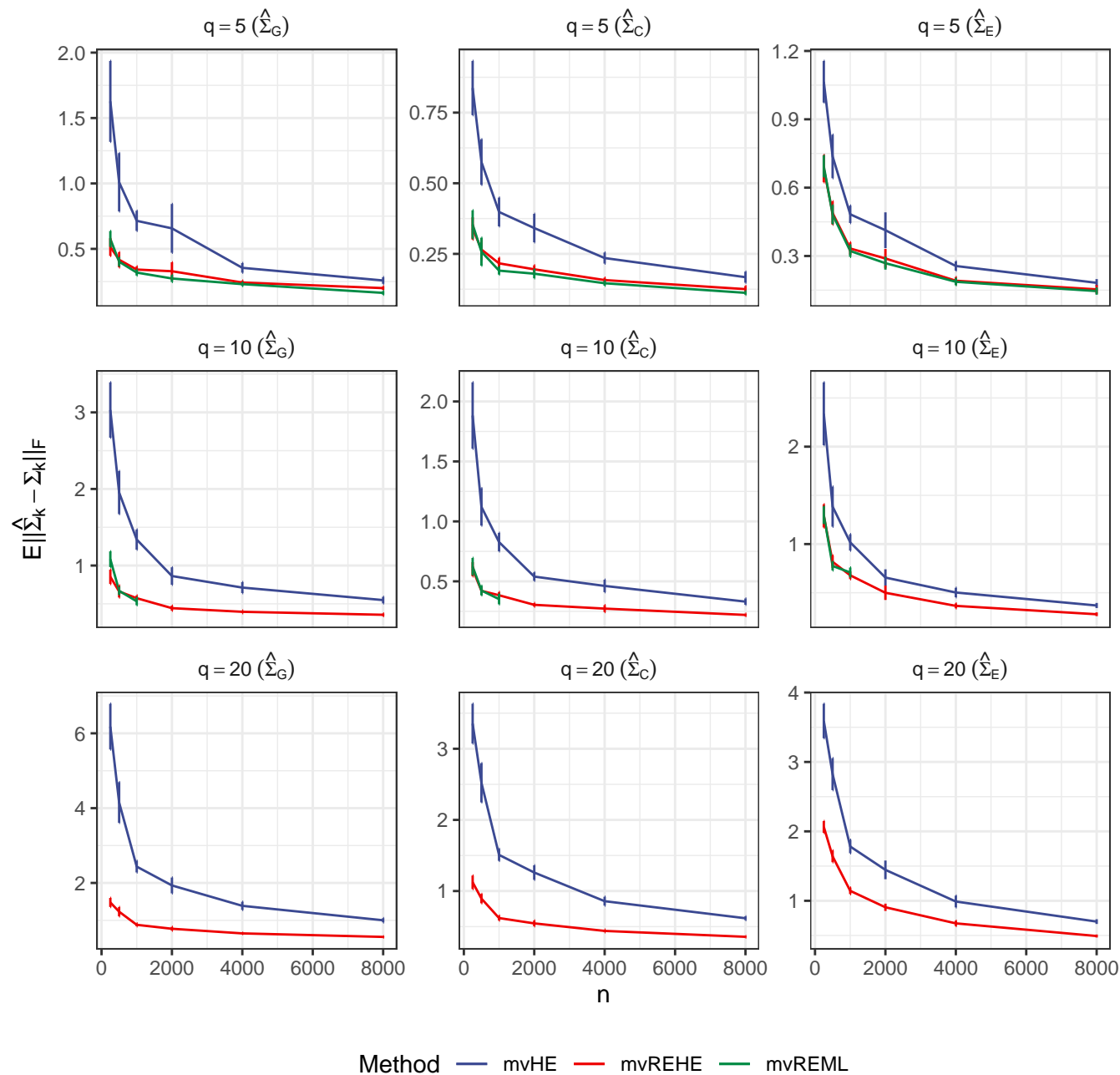
q = 20

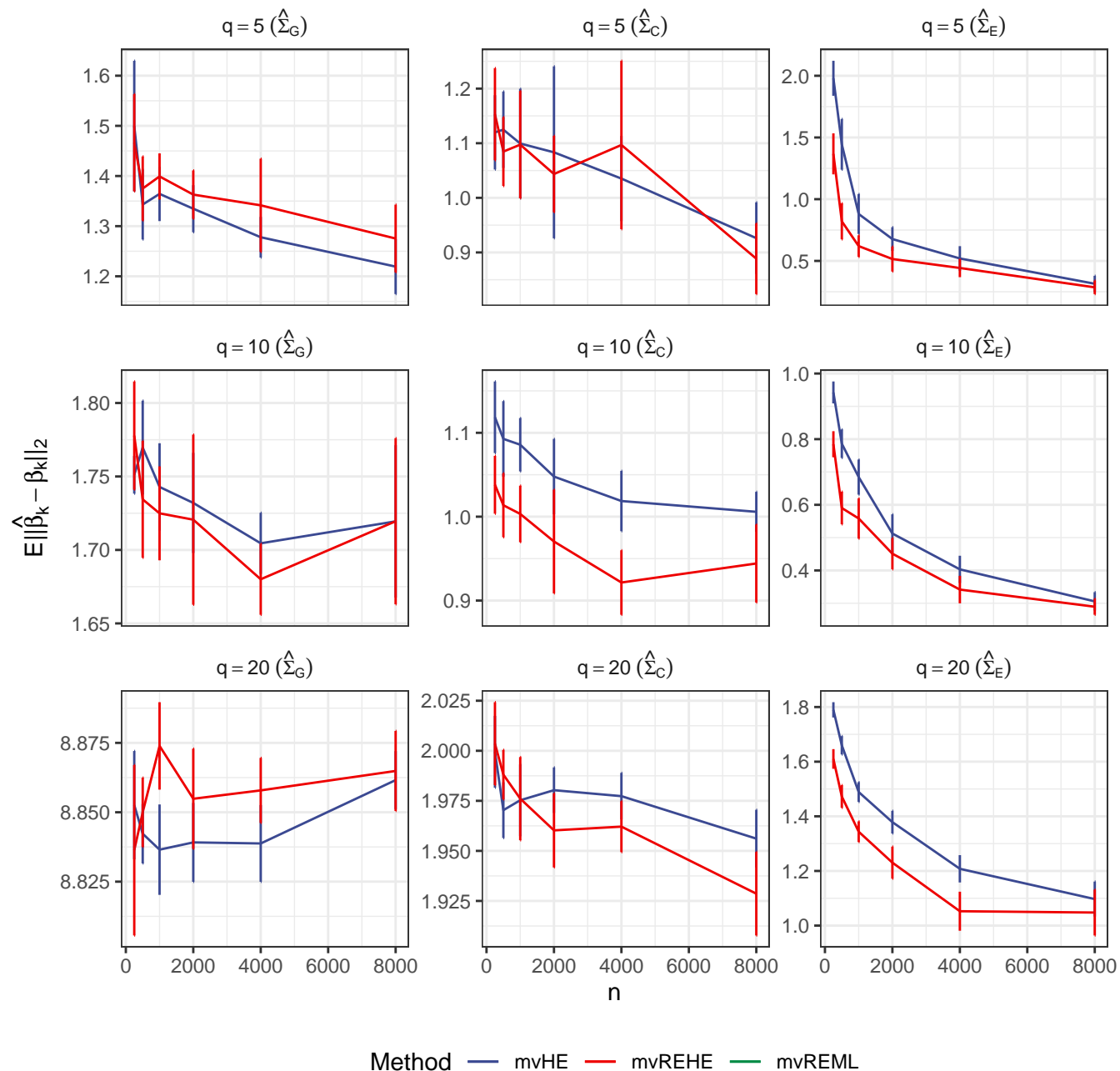


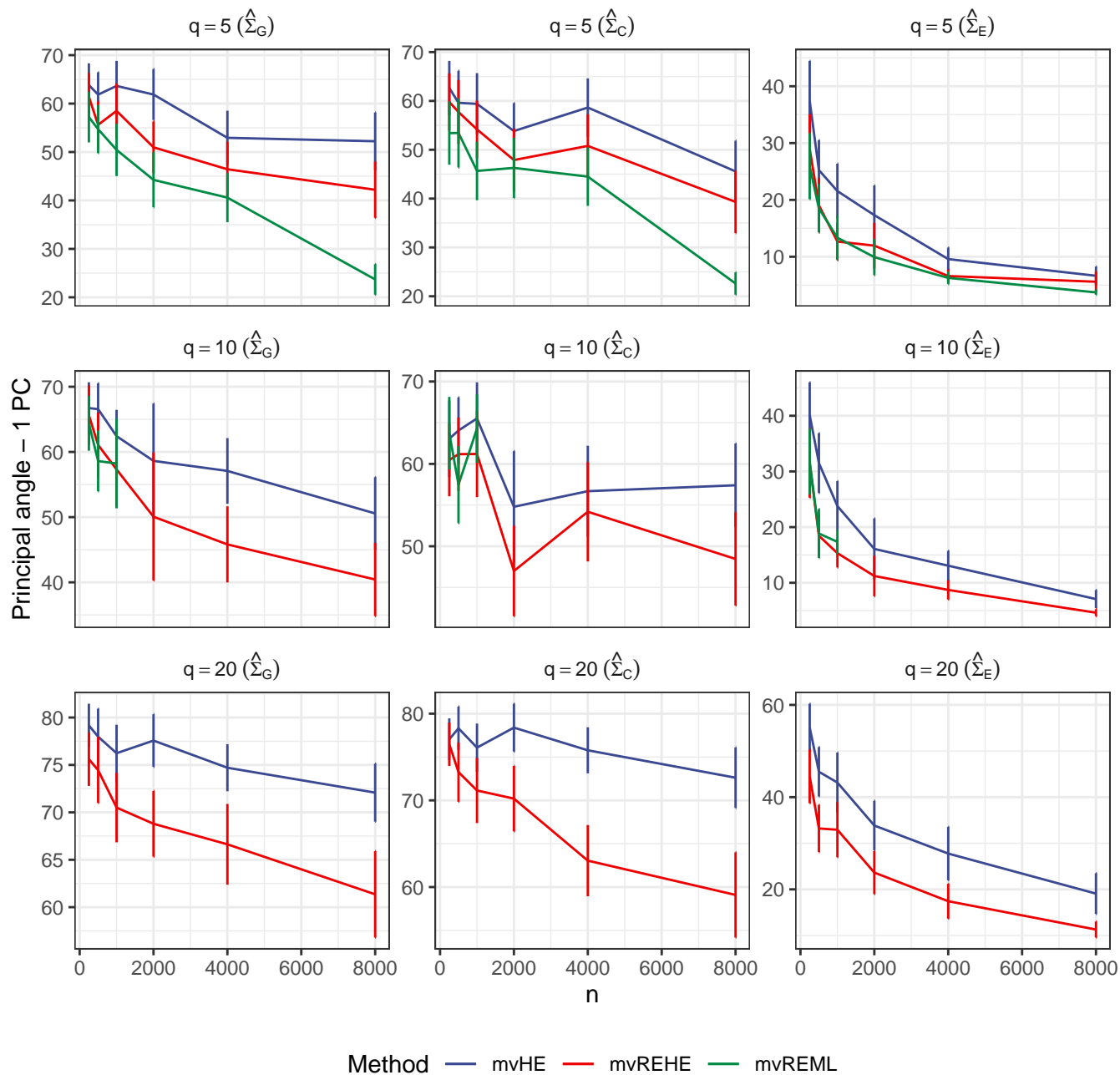
— Multivariate    - - - Univariate    Method    — HE    — REHE    — REML

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

Method — mvHE — mvREHE — mvREML

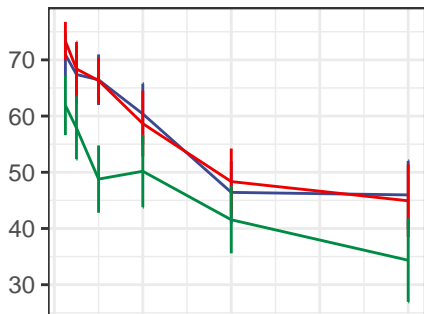




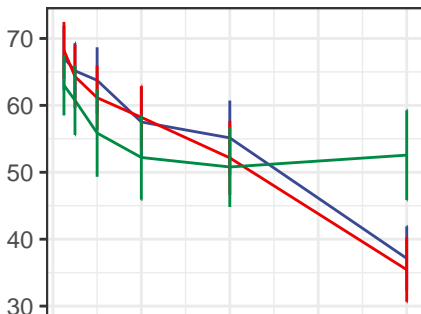


Max principal angle - 3 PCs

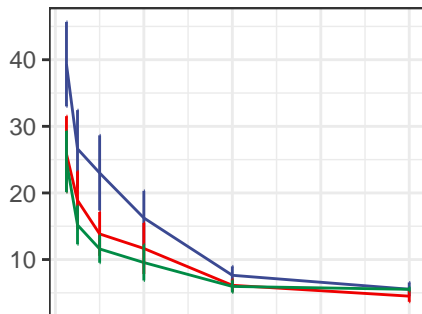
$q = 5$  ( $\hat{\Sigma}_G$ )



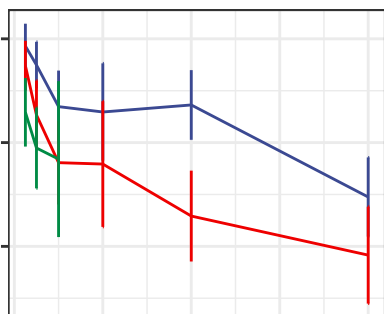
$q = 5$  ( $\hat{\Sigma}_C$ )



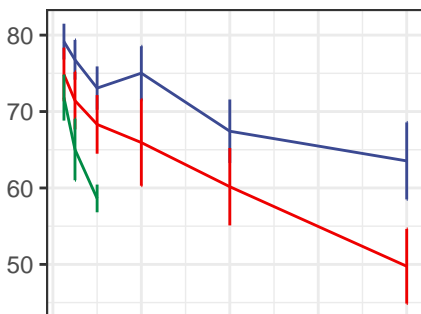
$q = 5$  ( $\hat{\Sigma}_E$ )



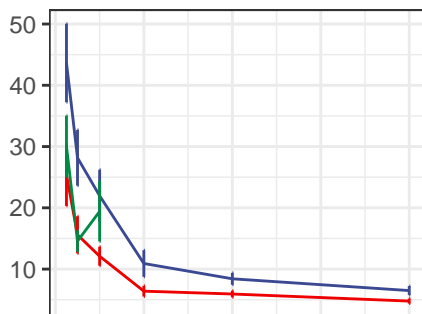
$q = 10$  ( $\hat{\Sigma}_G$ )



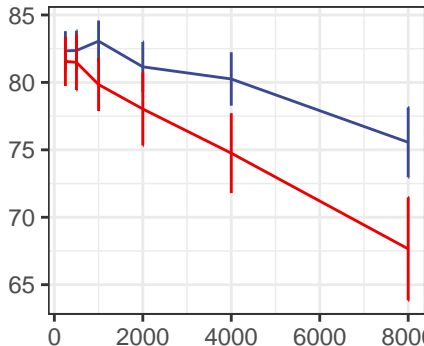
$q = 10$  ( $\hat{\Sigma}_C$ )



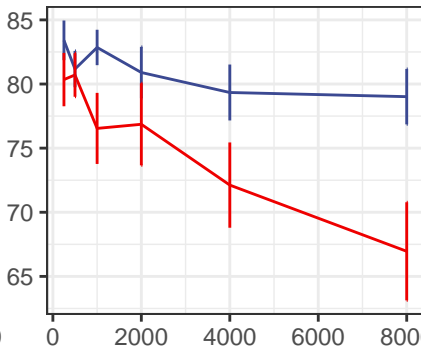
$q = 10$  ( $\hat{\Sigma}_E$ )



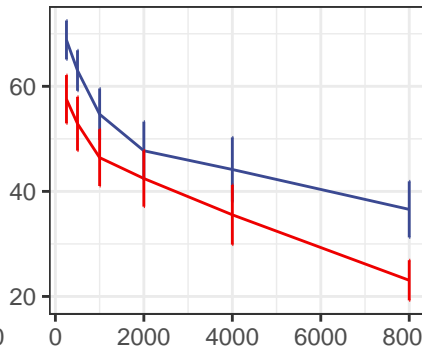
$q = 20$  ( $\hat{\Sigma}_G$ )



$q = 20$  ( $\hat{\Sigma}_C$ )



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



Method — mvHE — mvREHE — mvREML