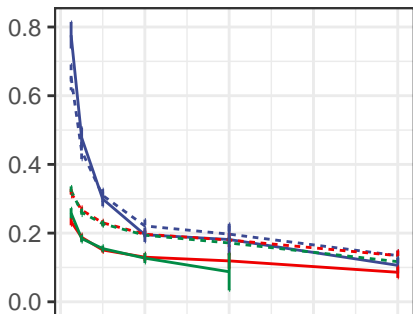
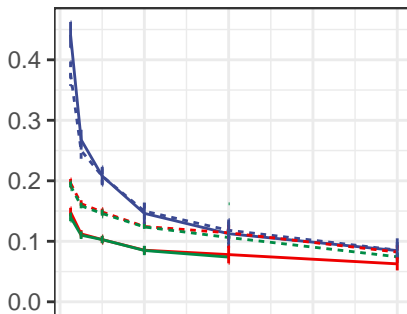
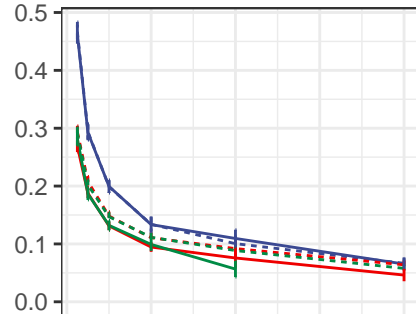
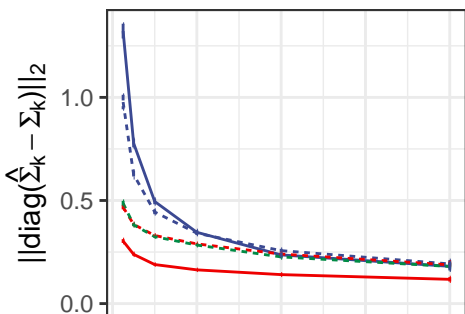
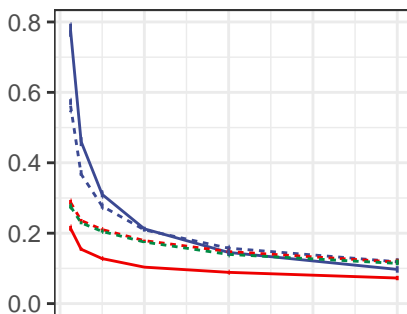
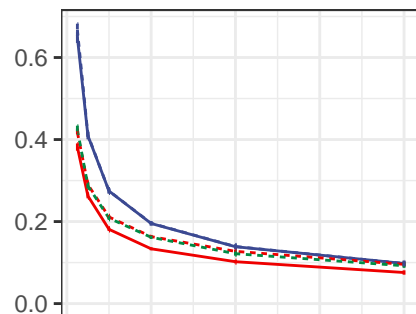
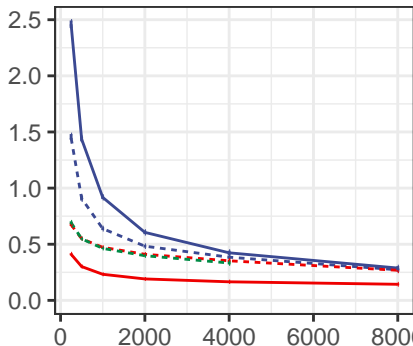
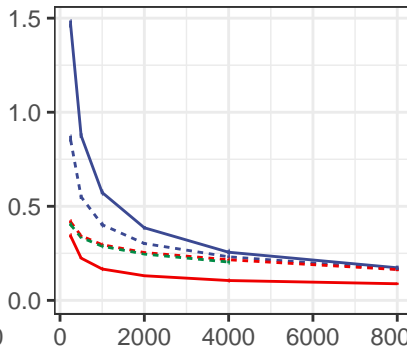
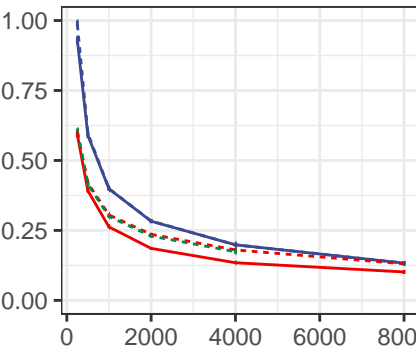
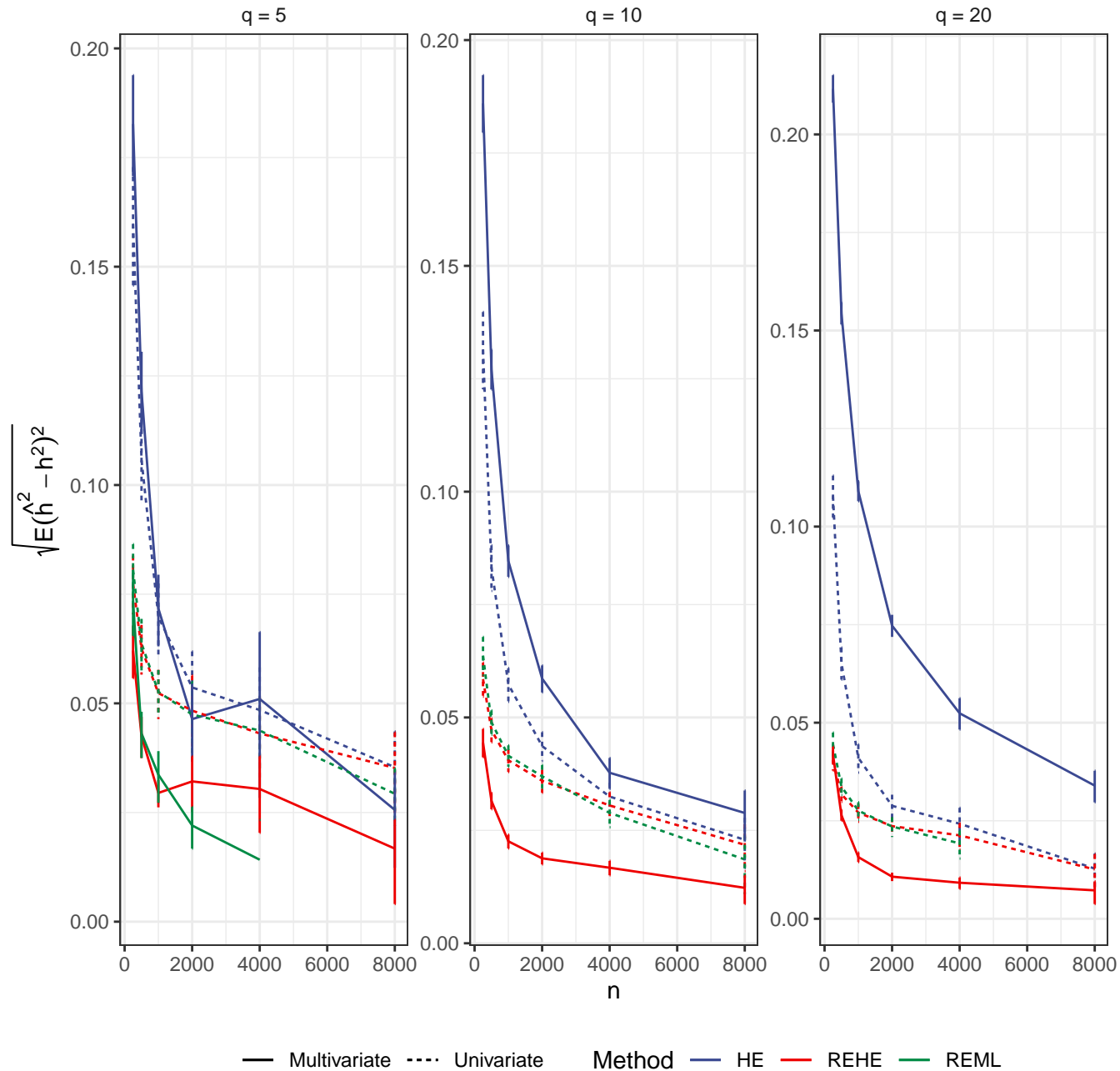
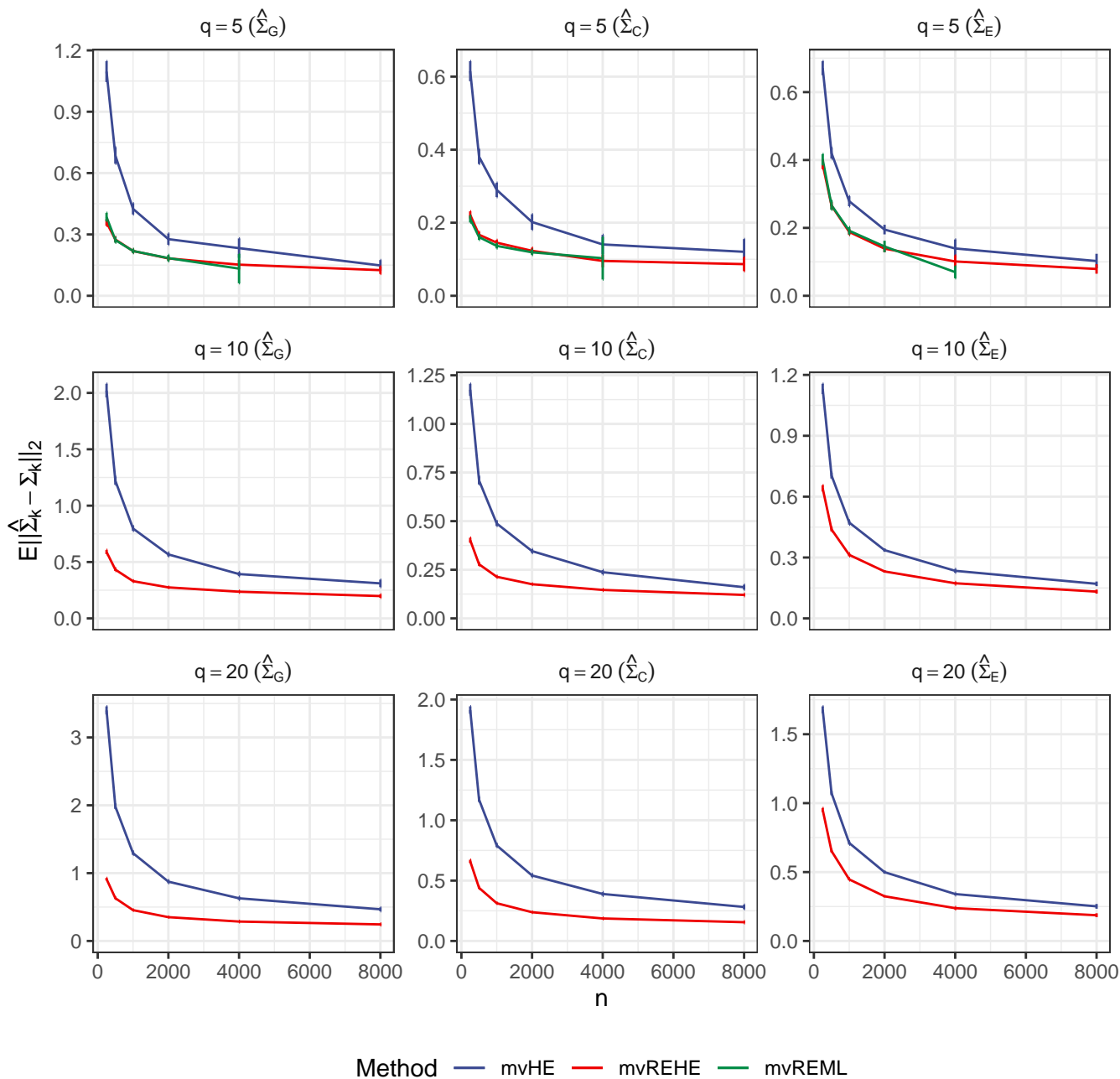
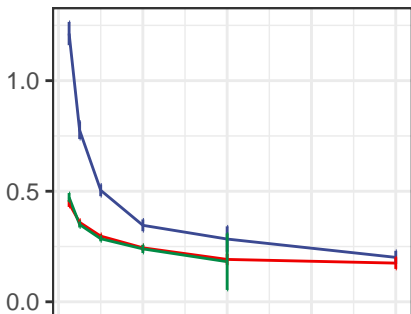
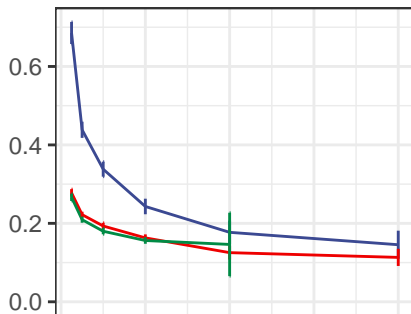
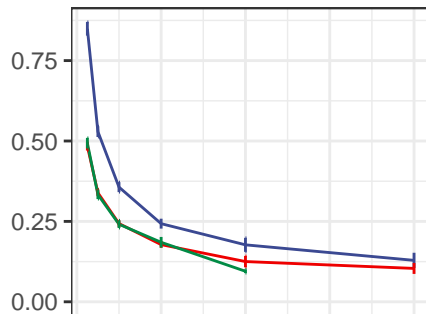
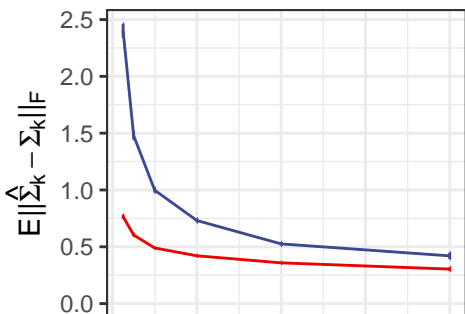
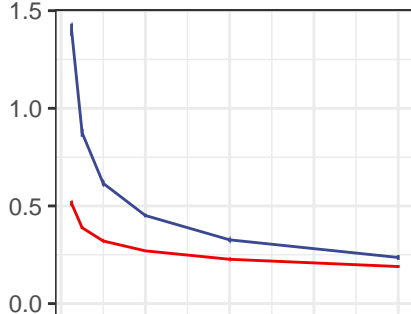
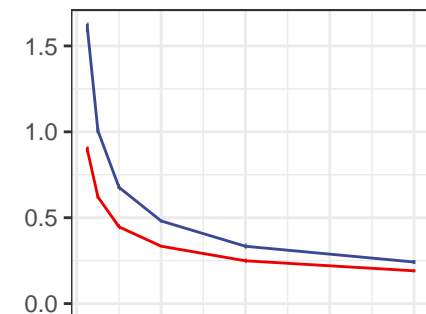
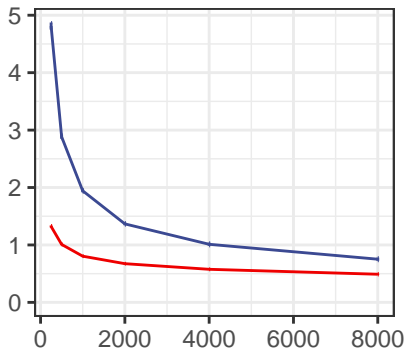
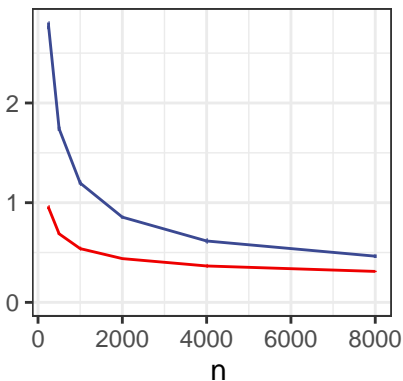
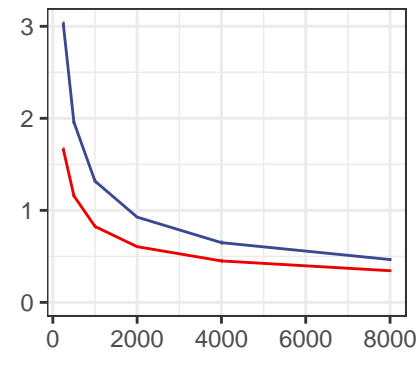


$q = 5 (\hat{\Sigma}_G)$  $q = 5 (\hat{\Sigma}_C)$  $q = 5 (\hat{\Sigma}_E)$  $q = 10 (\hat{\Sigma}_G)$  $q = 10 (\hat{\Sigma}_C)$  $q = 10 (\hat{\Sigma}_E)$  $q = 20 (\hat{\Sigma}_G)$  $q = 20 (\hat{\Sigma}_C)$  $q = 20 (\hat{\Sigma}_E)$  n

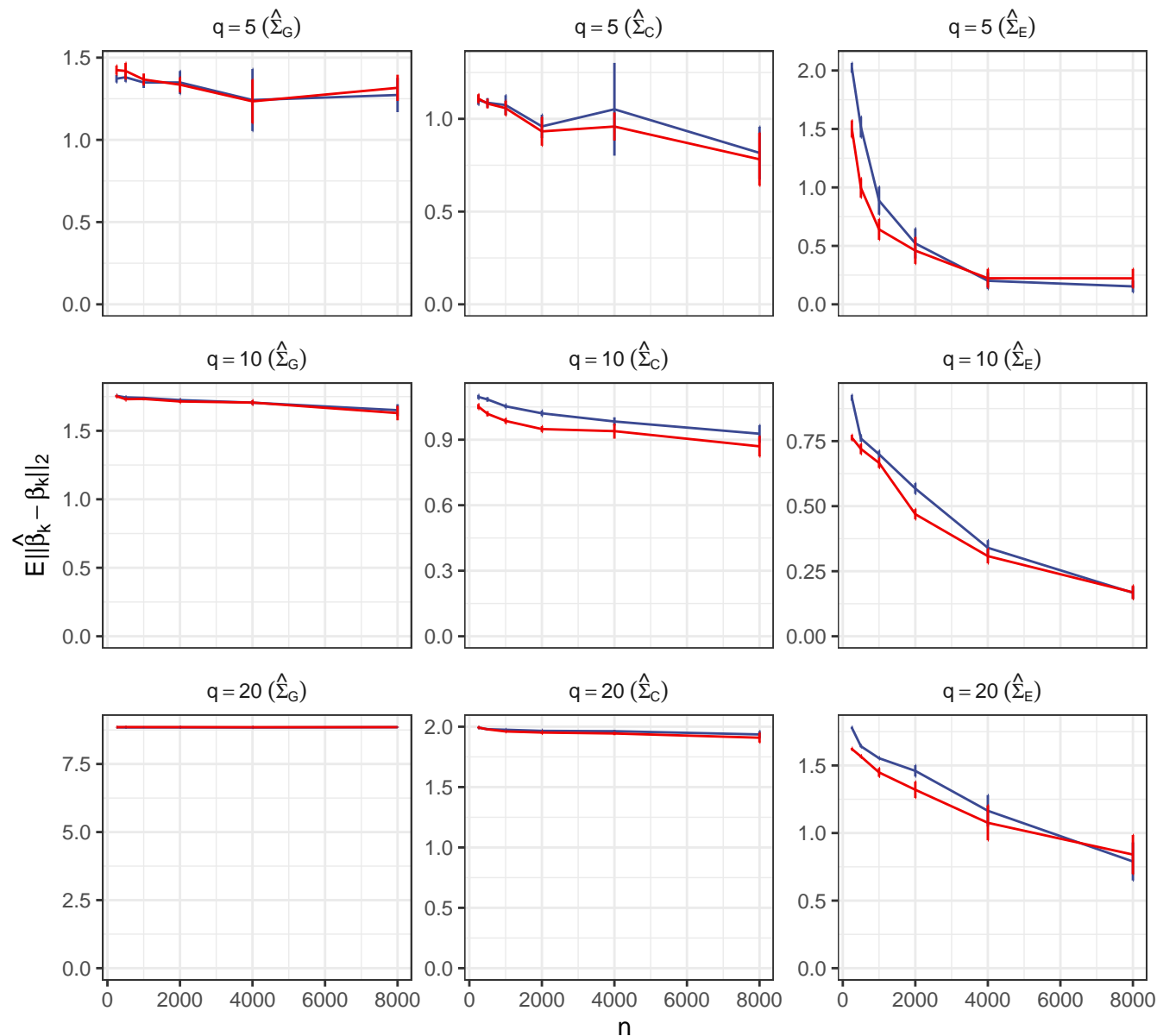
— Multivariate - - - - Univariate Method — HE — REHE — REML





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

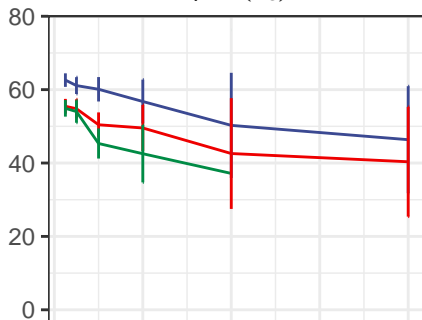
Method — mvHE — mvREHE — mvREML



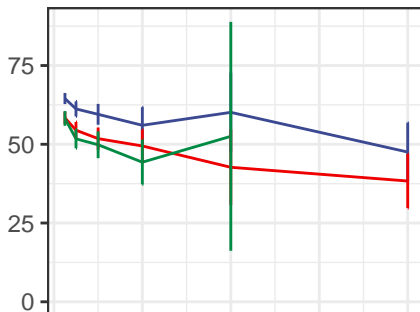
Method mvHE mvREHE mvREML

Principal angle - 1 PC

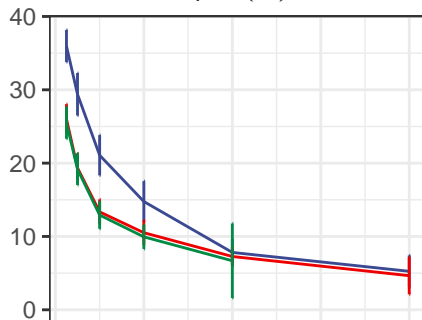
$q = 5 (\hat{\Sigma}_G)$



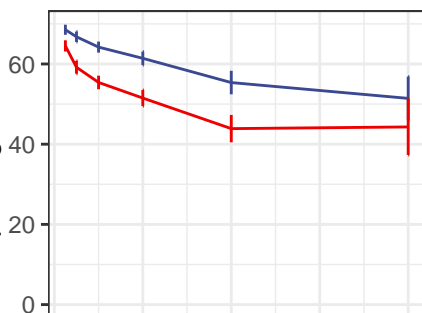
$q = 5 (\hat{\Sigma}_C)$



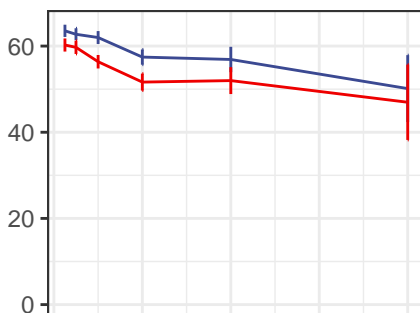
$q = 5 (\hat{\Sigma}_E)$



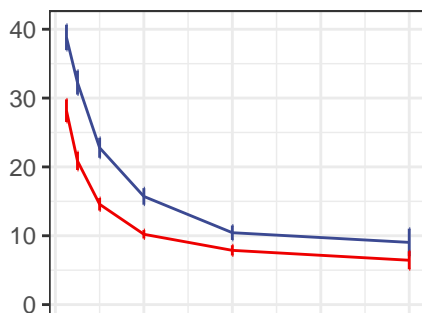
$q = 10 (\hat{\Sigma}_G)$



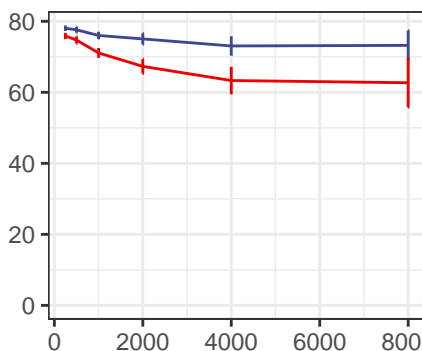
$q = 10 (\hat{\Sigma}_C)$



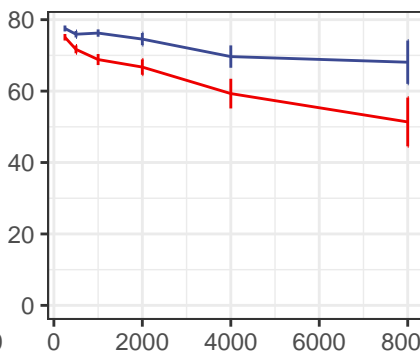
$q = 10 (\hat{\Sigma}_E)$



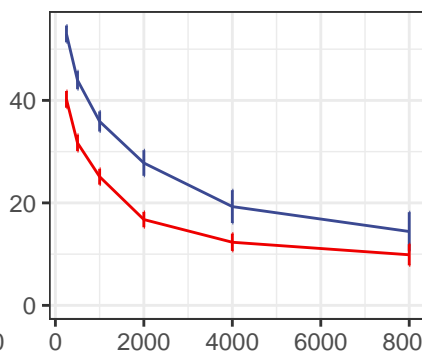
$q = 20 (\hat{\Sigma}_G)$



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



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



n

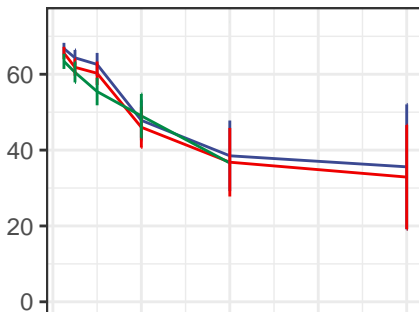
Method — mvHE — mvREHE — mvREML

Max principal angle - 3 PCs

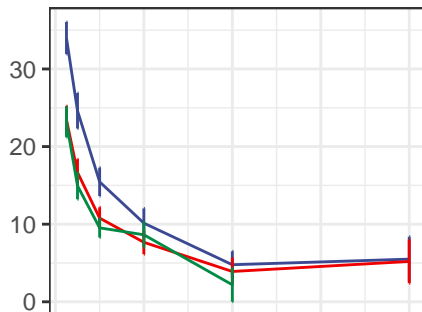
$q = 5 (\hat{\Sigma}_G)$



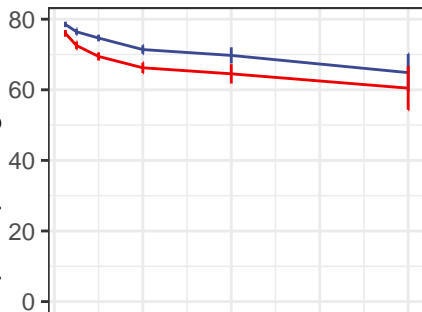
$q = 5 (\hat{\Sigma}_C)$



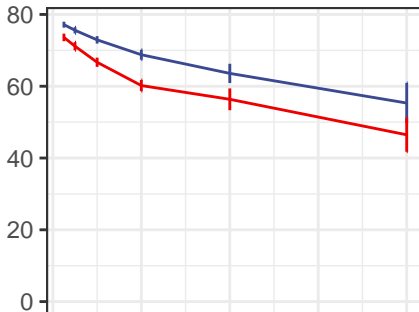
$q = 5 (\hat{\Sigma}_E)$



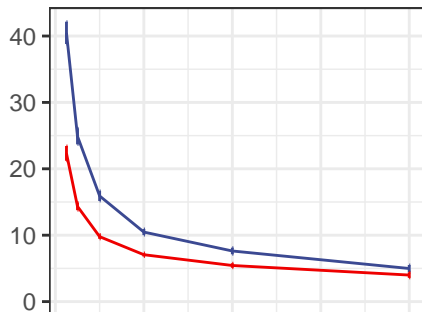
$q = 10 (\hat{\Sigma}_G)$



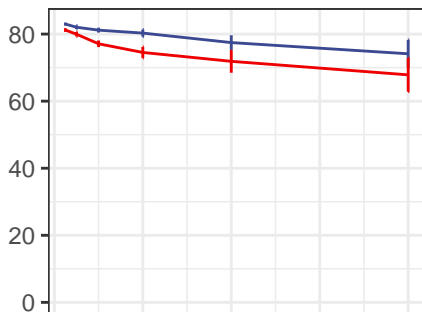
$q = 10 (\hat{\Sigma}_C)$



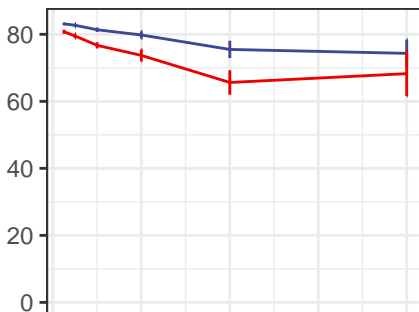
$q = 10 (\hat{\Sigma}_E)$



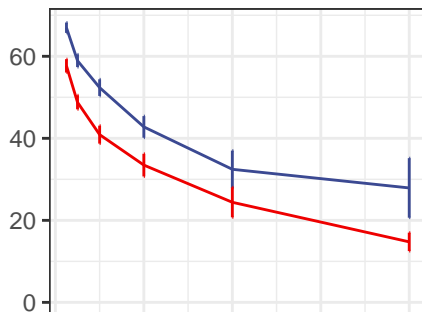
$q = 20 (\hat{\Sigma}_G)$



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



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



n

Method — mvHE — mvREHE — mvREML