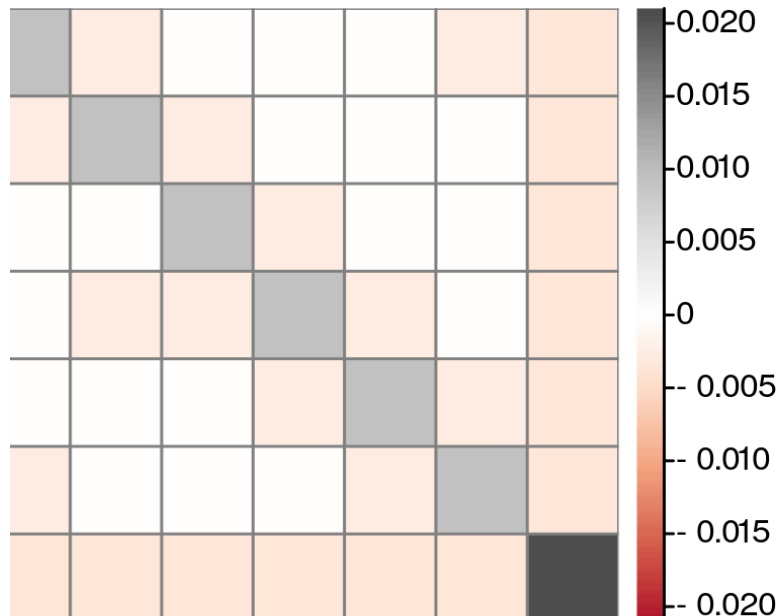
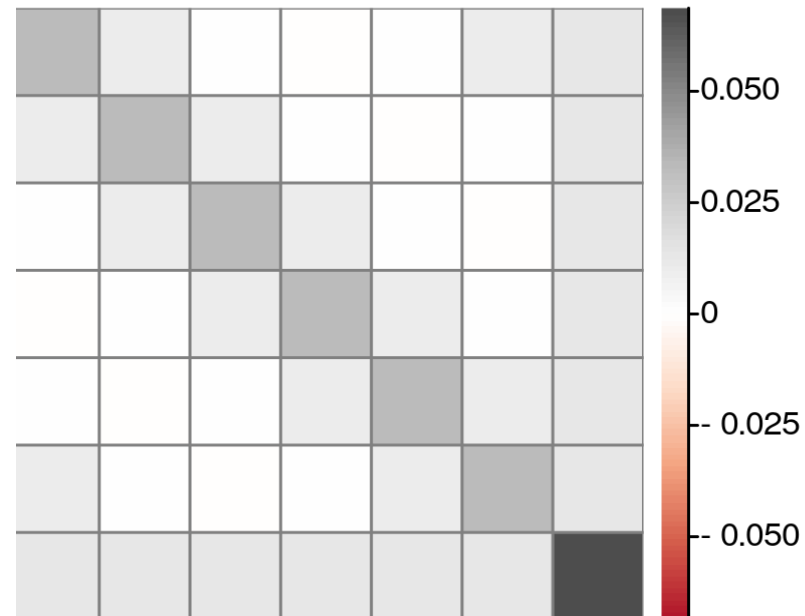


(a)  $\hat{S}^2$  operator covariance



(b)  $\hat{S}^z$  operator covariance



(c)  $\hat{Q}$  covariance matrix