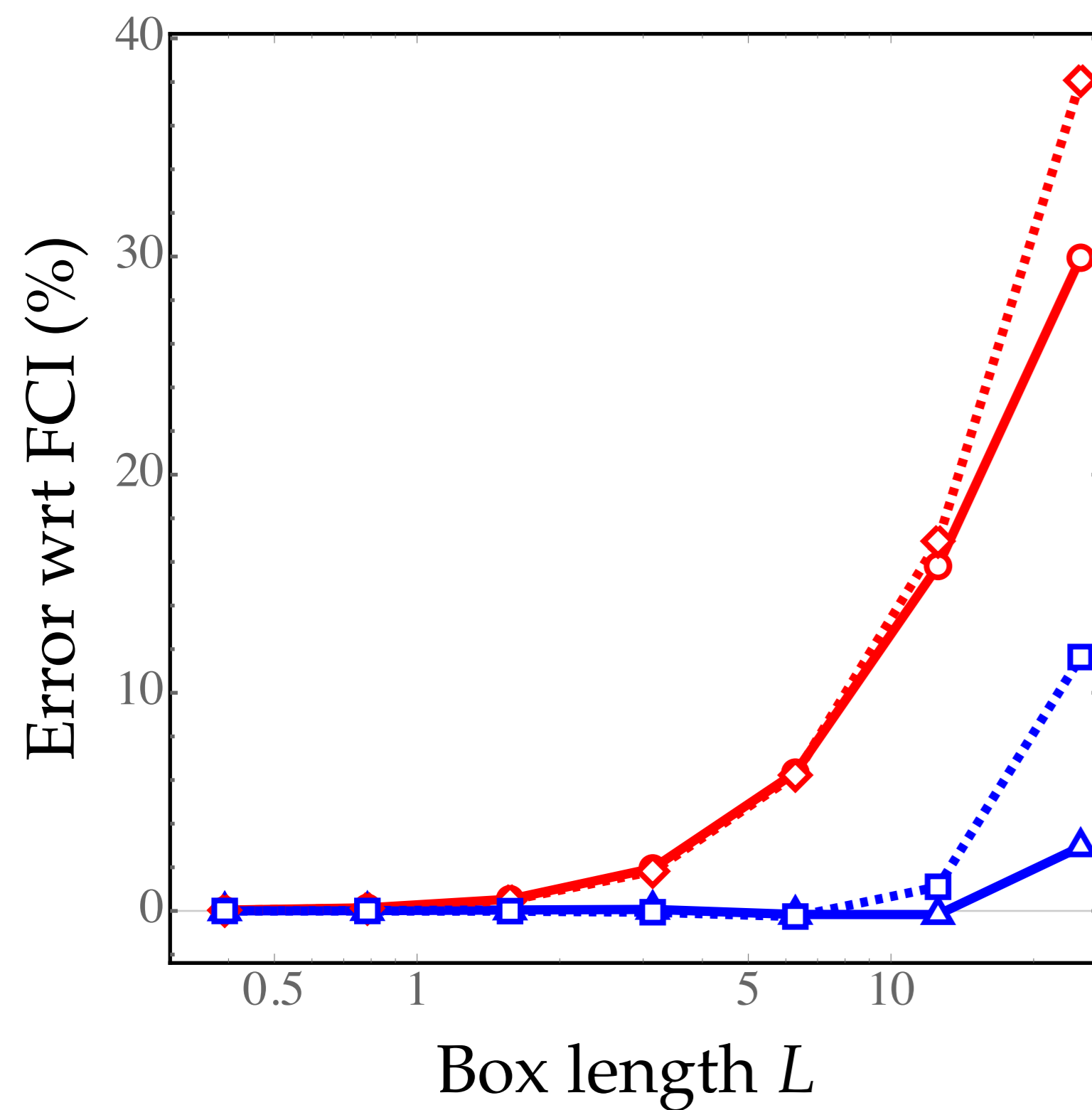
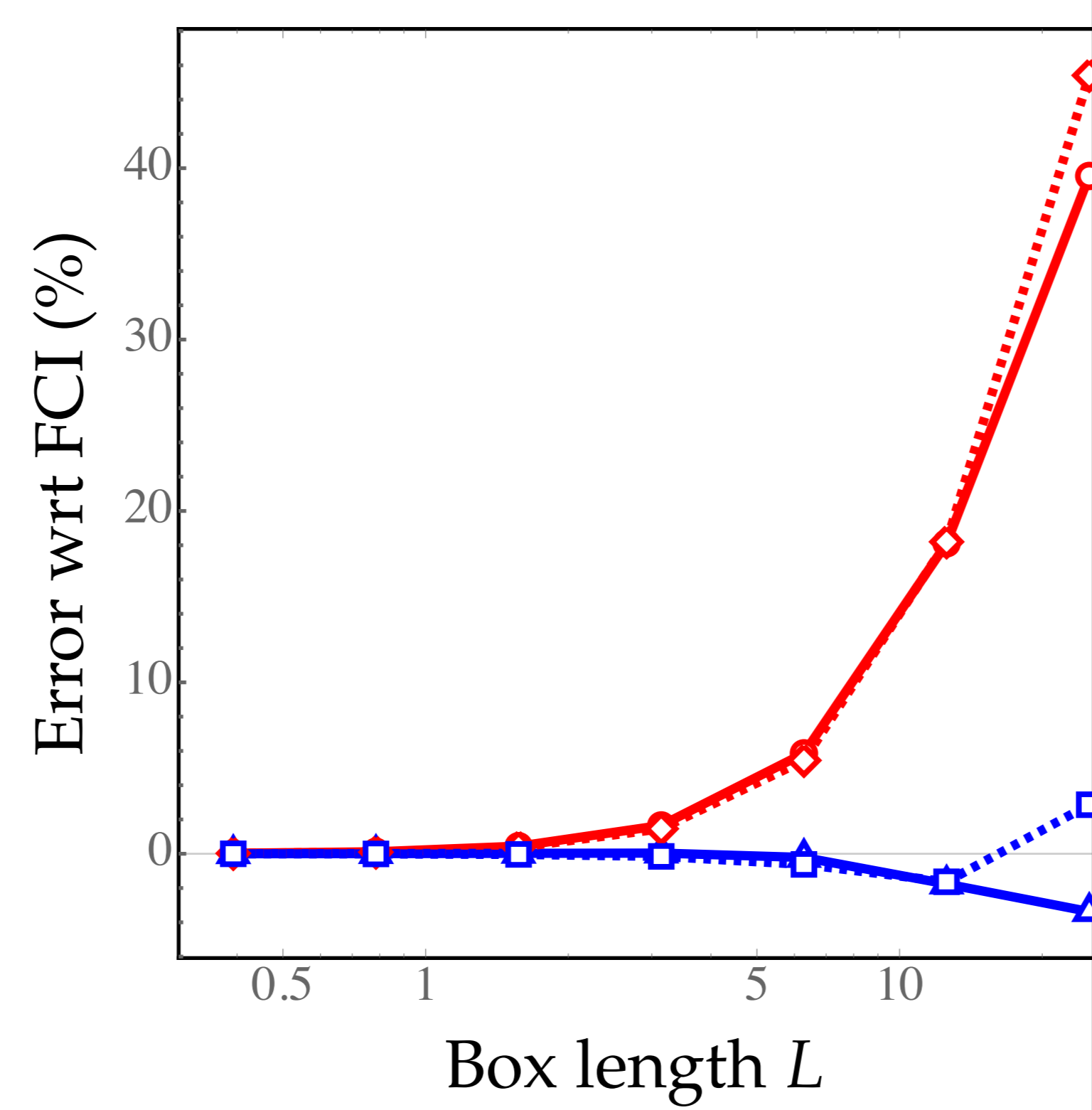
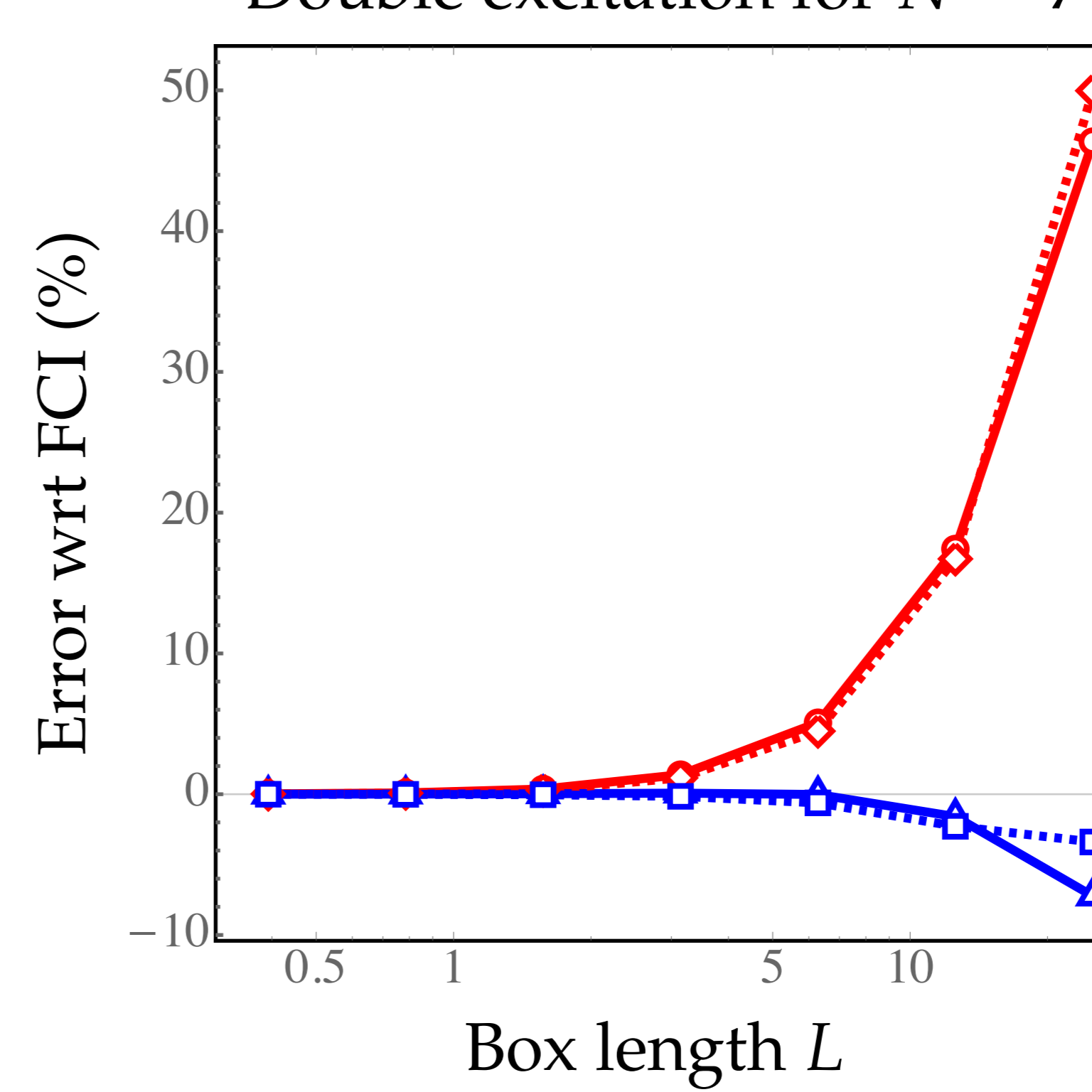
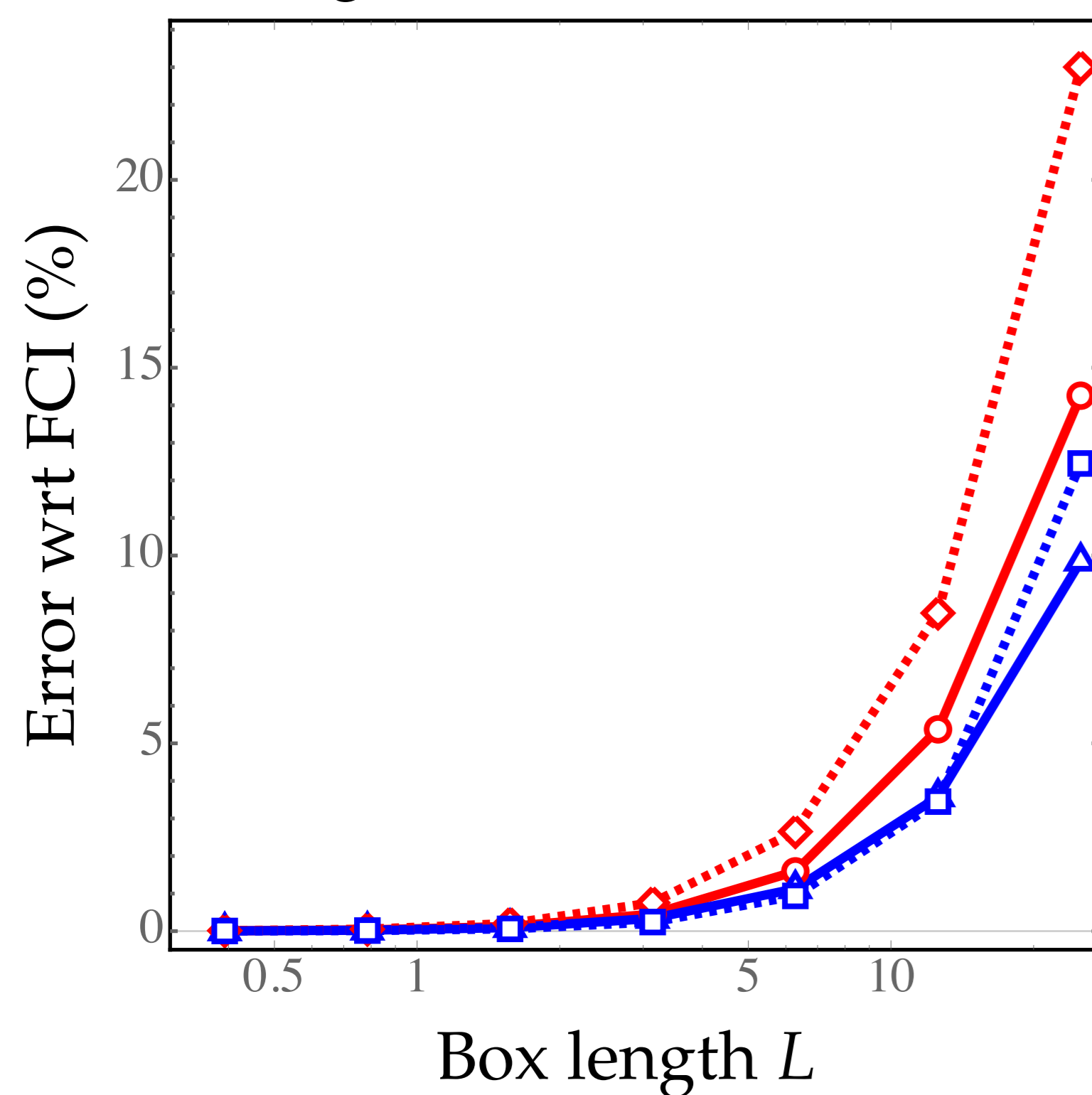
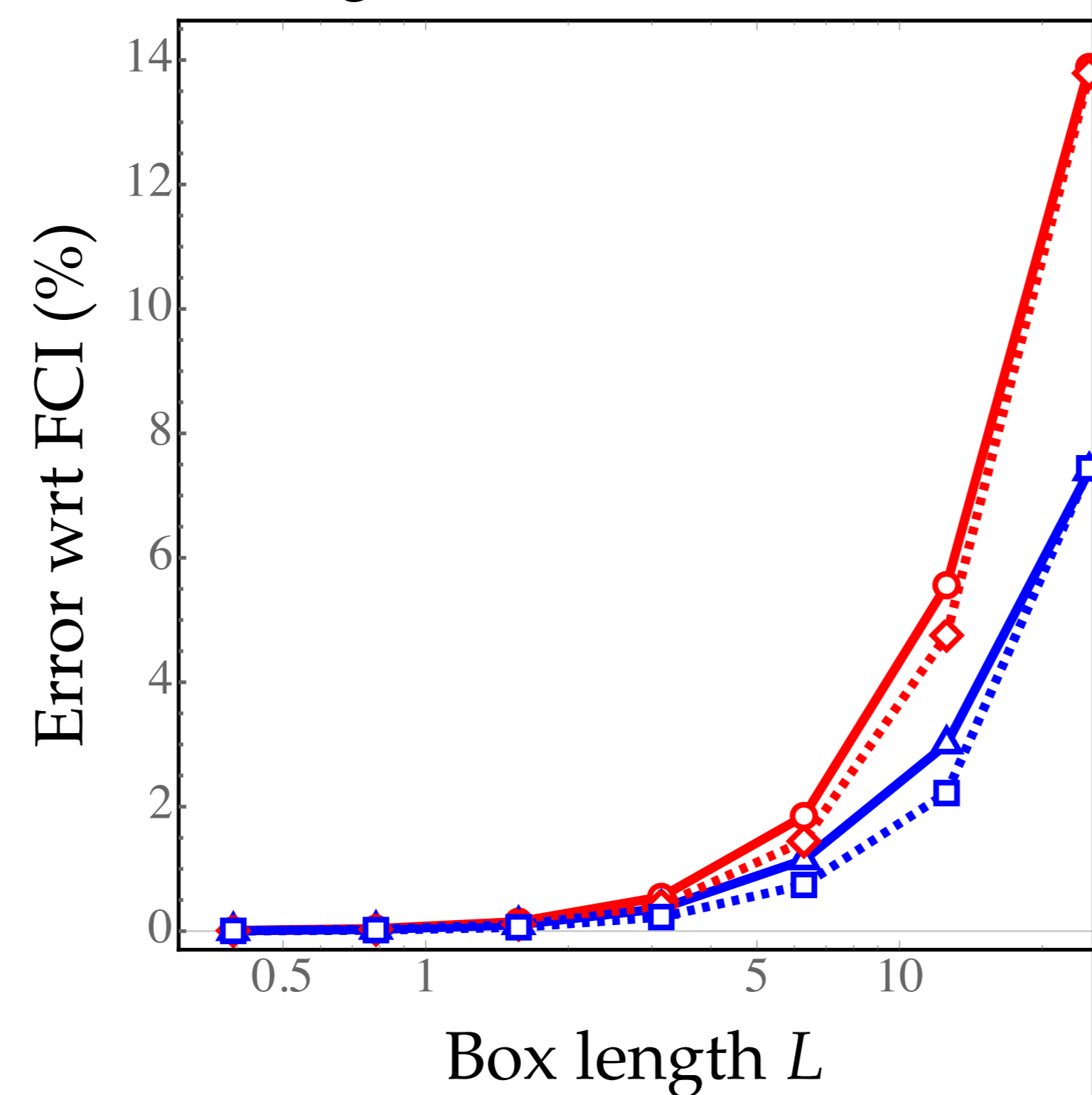
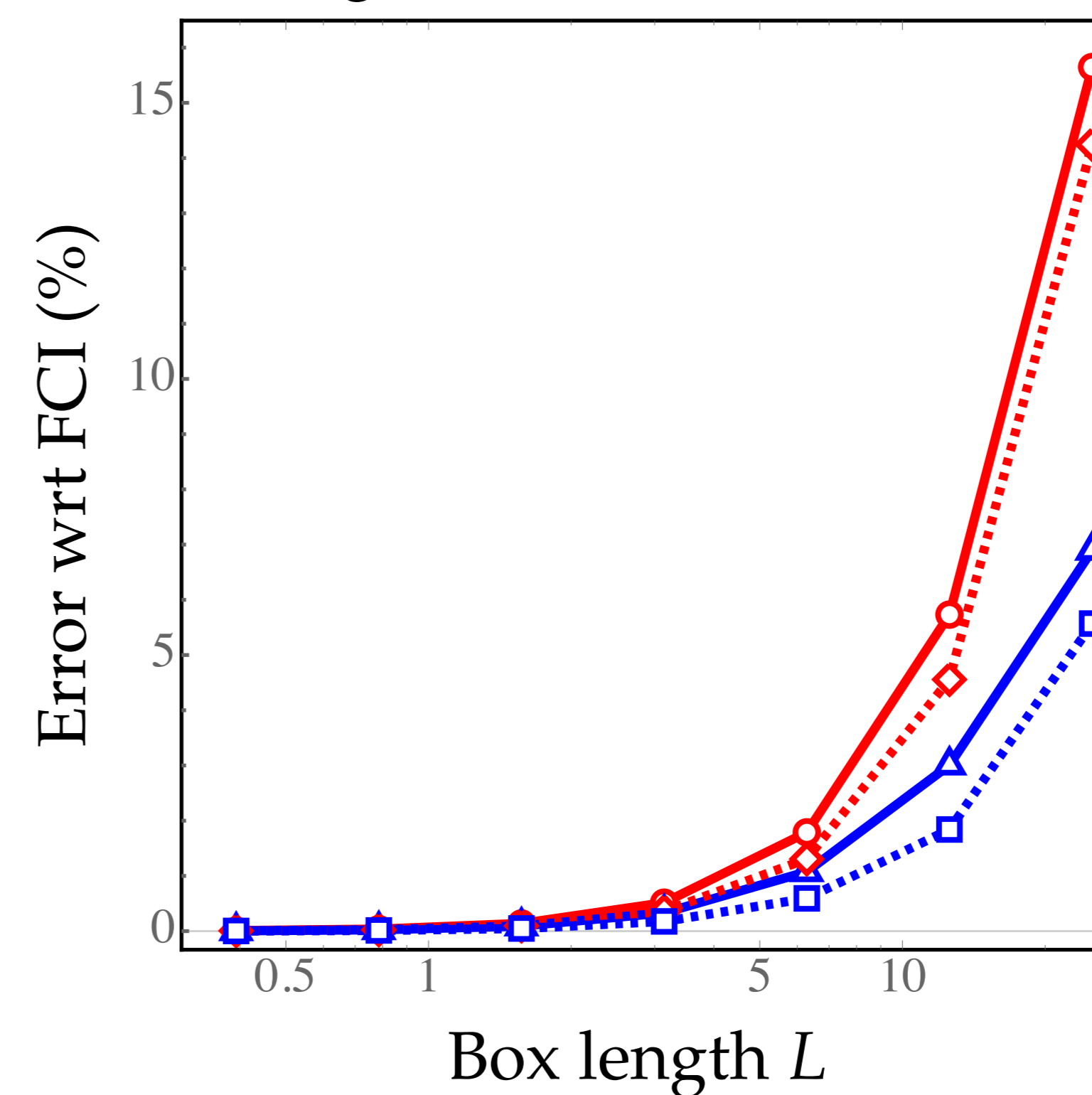


Double excitation for  $N = 3$ Double excitation for  $N = 5$ Double excitation for  $N = 7$ 

- $\Omega_{\text{eLDA}}^{(2)}$  with  $\mathbf{w} = (0,0)$
- △  $\Omega_{\text{eLDA}}^{(2)}$  with  $\mathbf{w} = (1/3,1/3)$
- ◇  $\Omega_{\text{eLDA}}^{(2)} - \Delta_{\text{c}}^{(2)}$  with  $\mathbf{w} = (0,0)$
- $\Omega_{\text{eLDA}}^{(2)} - \Delta_{\text{c}}^{(2)}$  with  $\mathbf{w} = (1/3,1/3)$

Single excitation for  $N = 3$ Single excitation for  $N = 5$ Single excitation for  $N = 7$ 

- $\Omega_{\text{eLDA}}^{(1)}$  with  $\mathbf{w} = (0,0)$
- △  $\Omega_{\text{eLDA}}^{(1)}$  with  $\mathbf{w} = (1/3,1/3)$
- ◇  $\Omega_{\text{eLDA}}^{(1)} - \Delta_{\text{c}}^{(1)}$  with  $\mathbf{w} = (0,0)$
- $\Omega_{\text{eLDA}}^{(1)} - \Delta_{\text{c}}^{(1)}$  with  $\mathbf{w} = (1/3,1/3)$