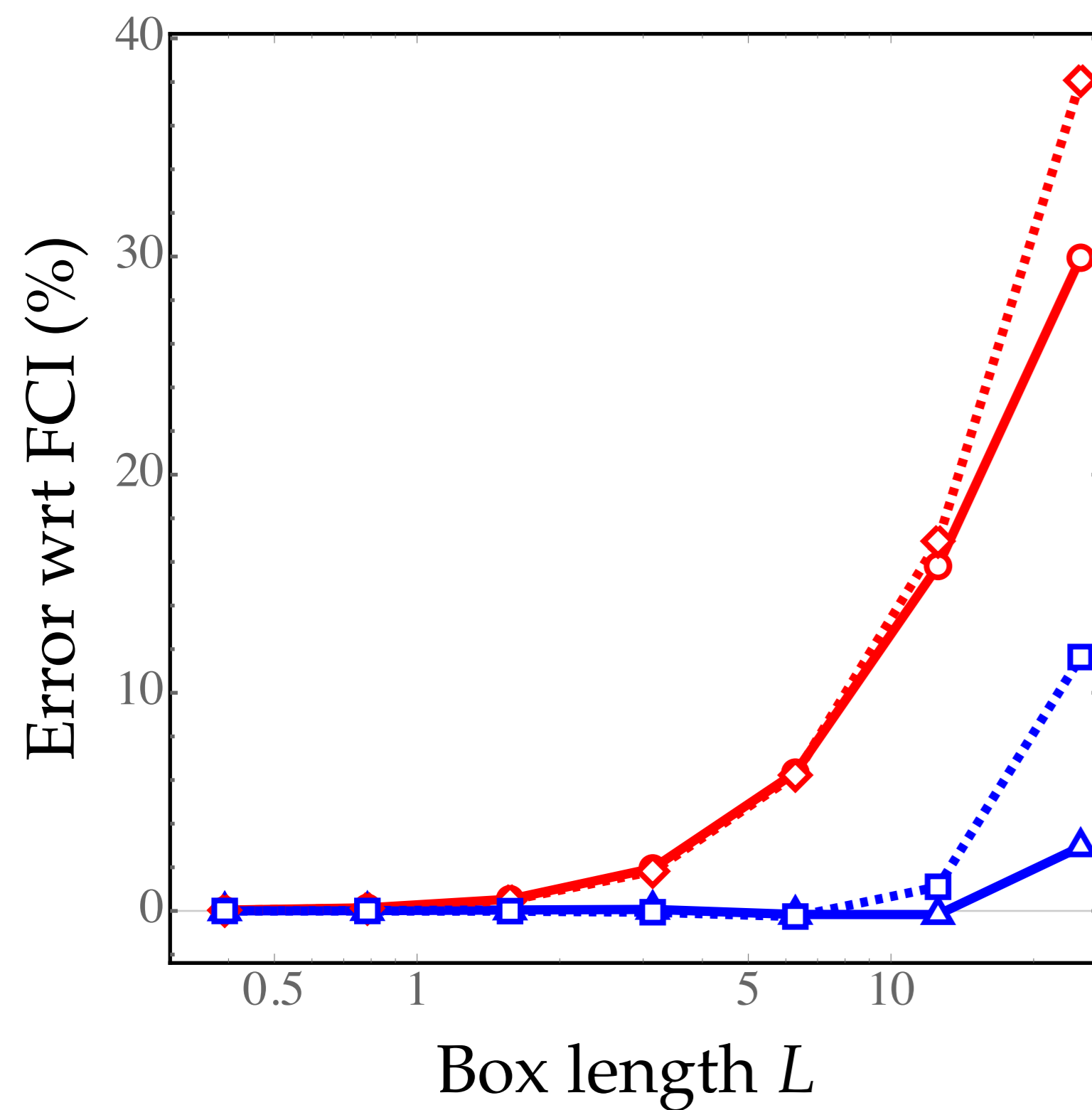
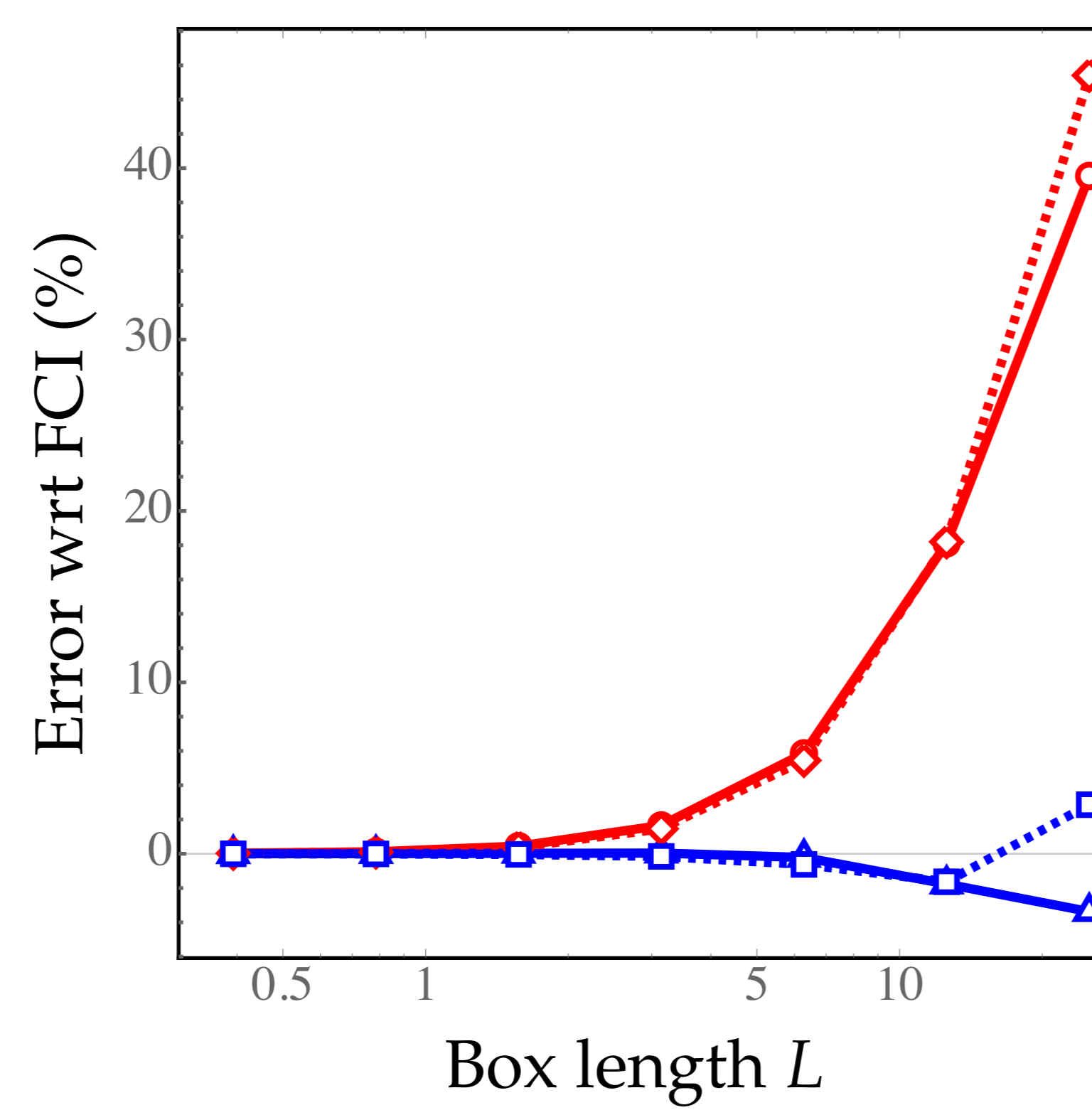
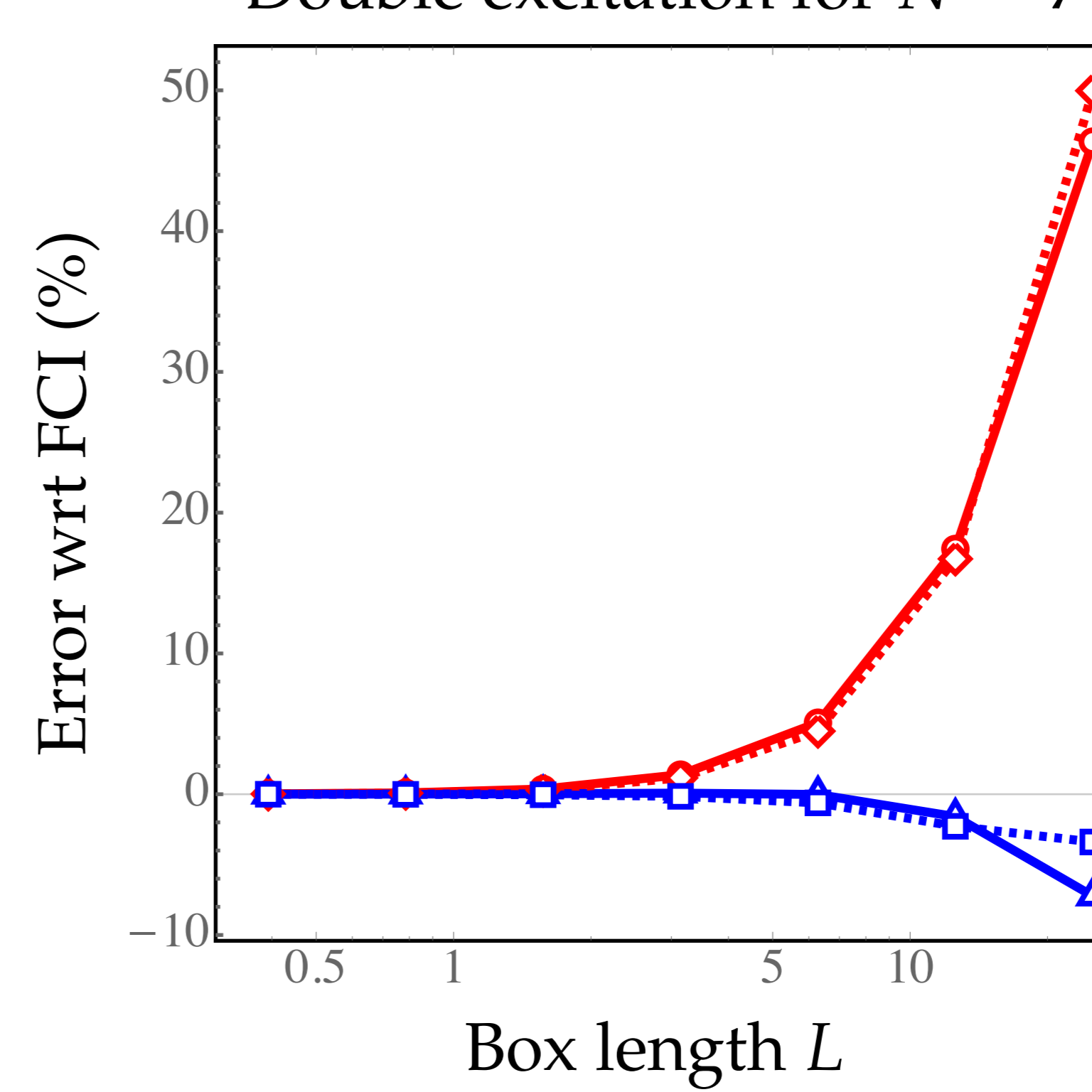
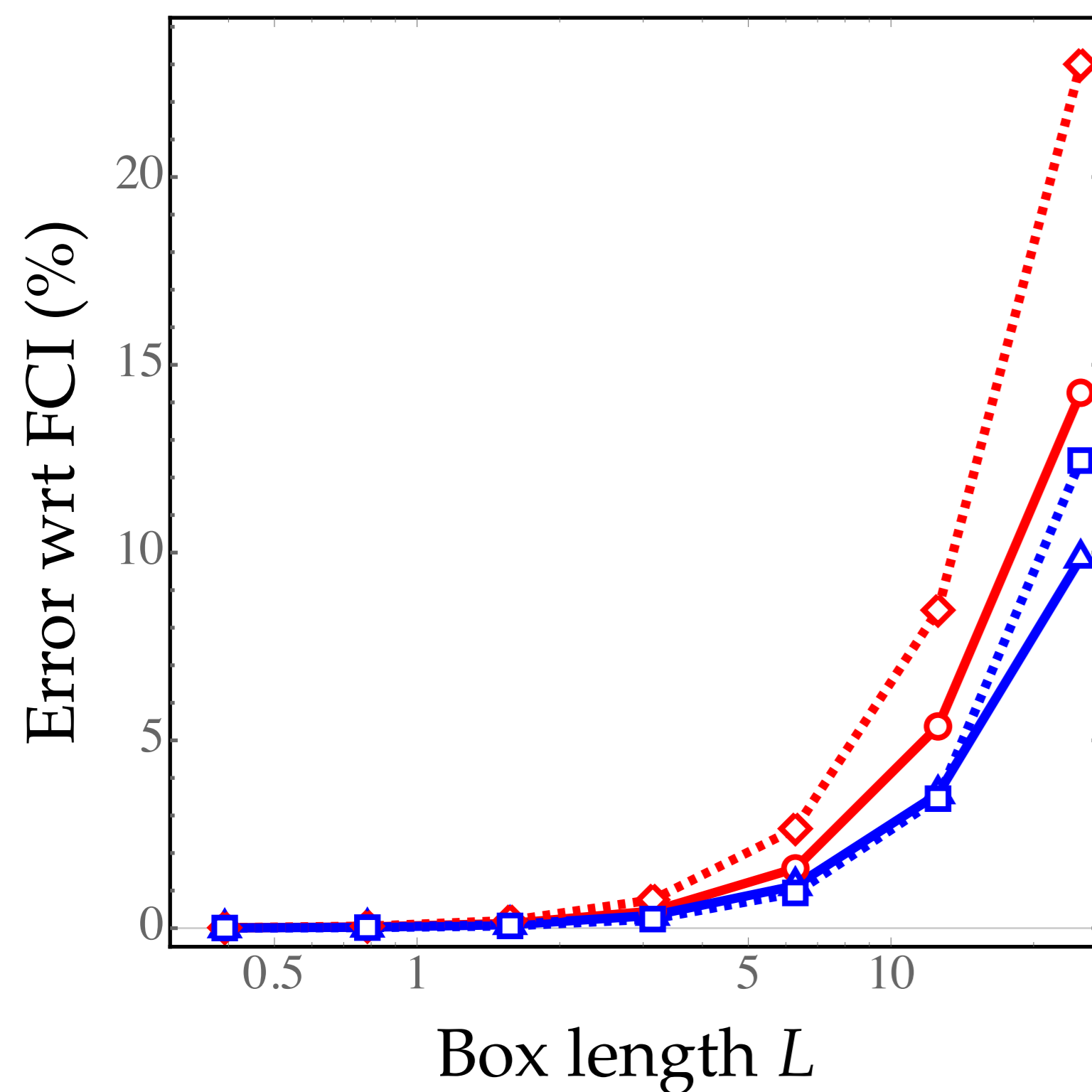
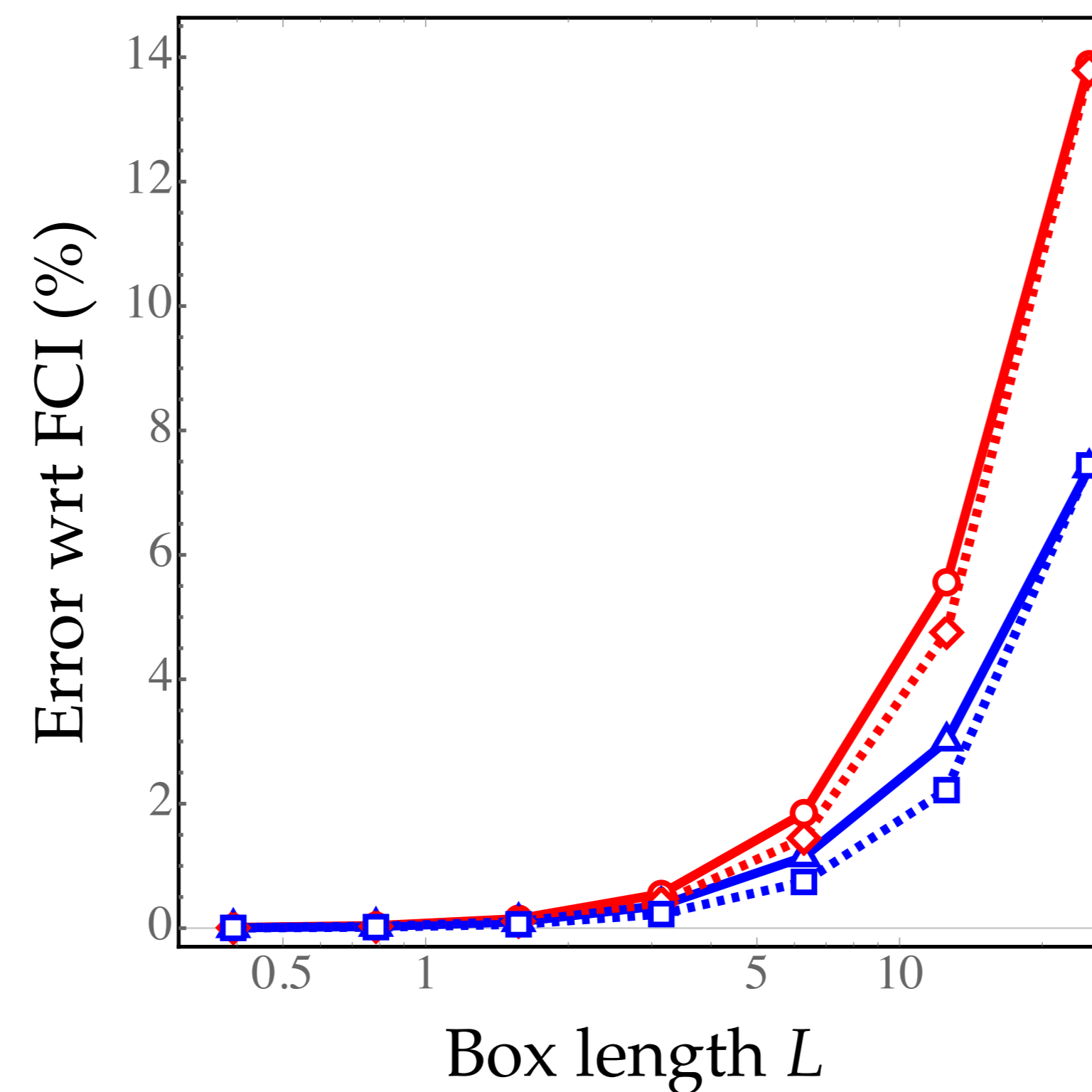
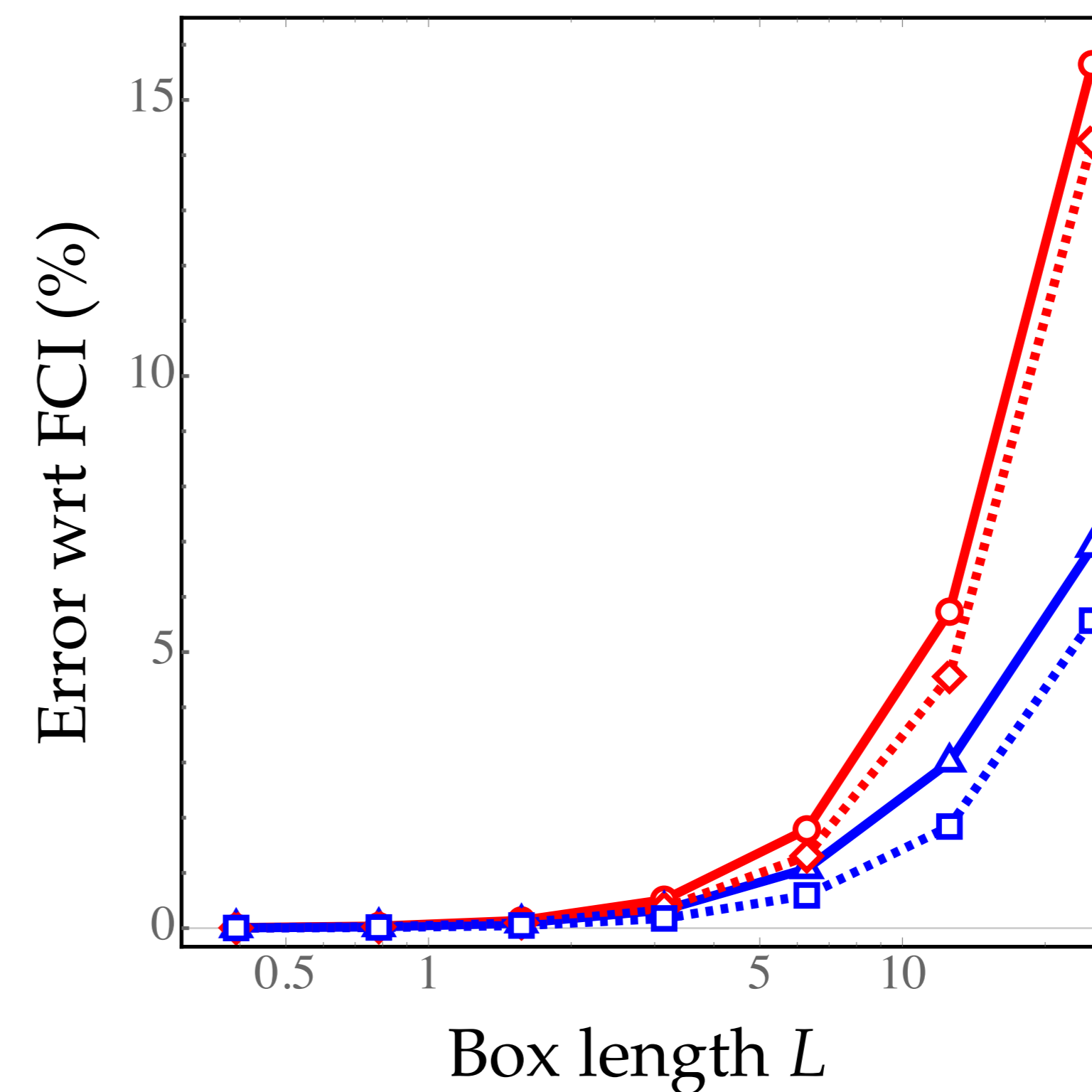


Double excitation for $N = 3$ Double excitation for $N = 5$ Double excitation for $N = 7$ 

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