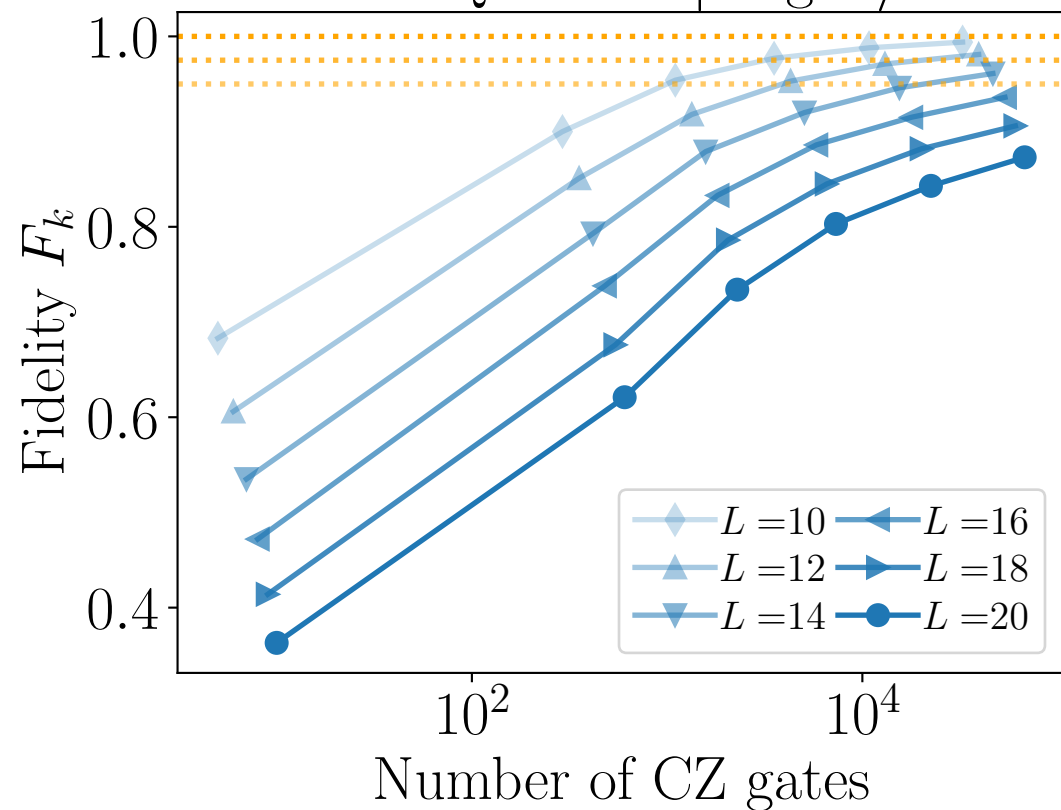
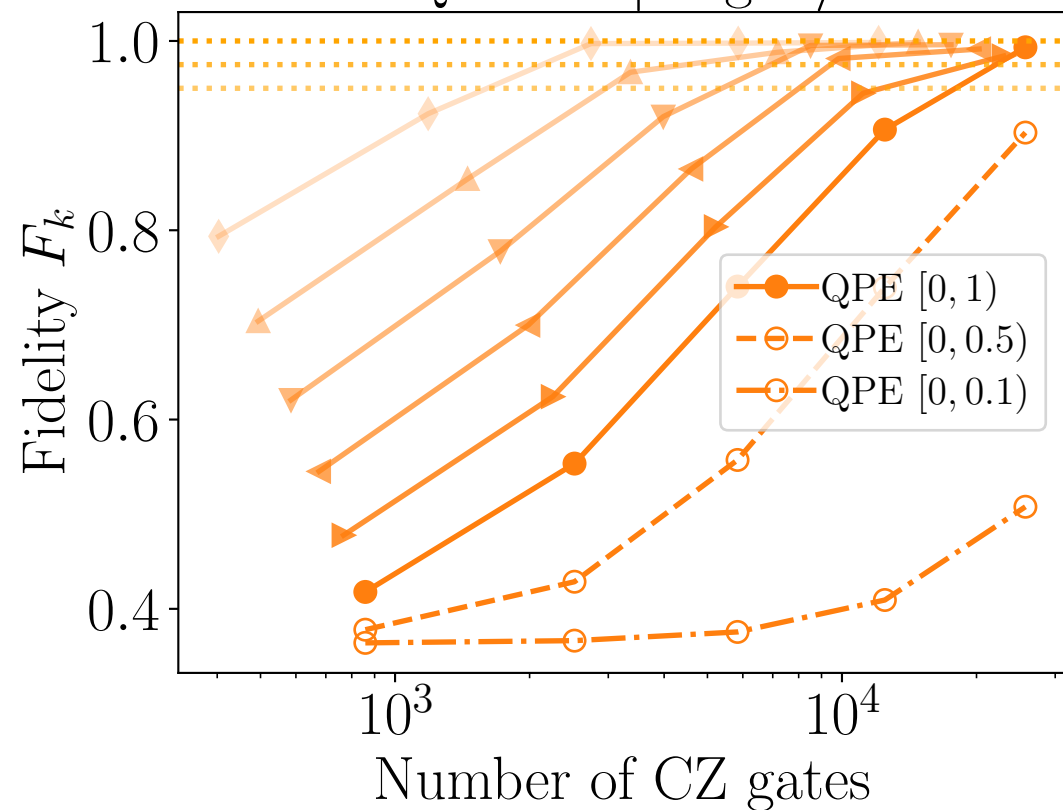
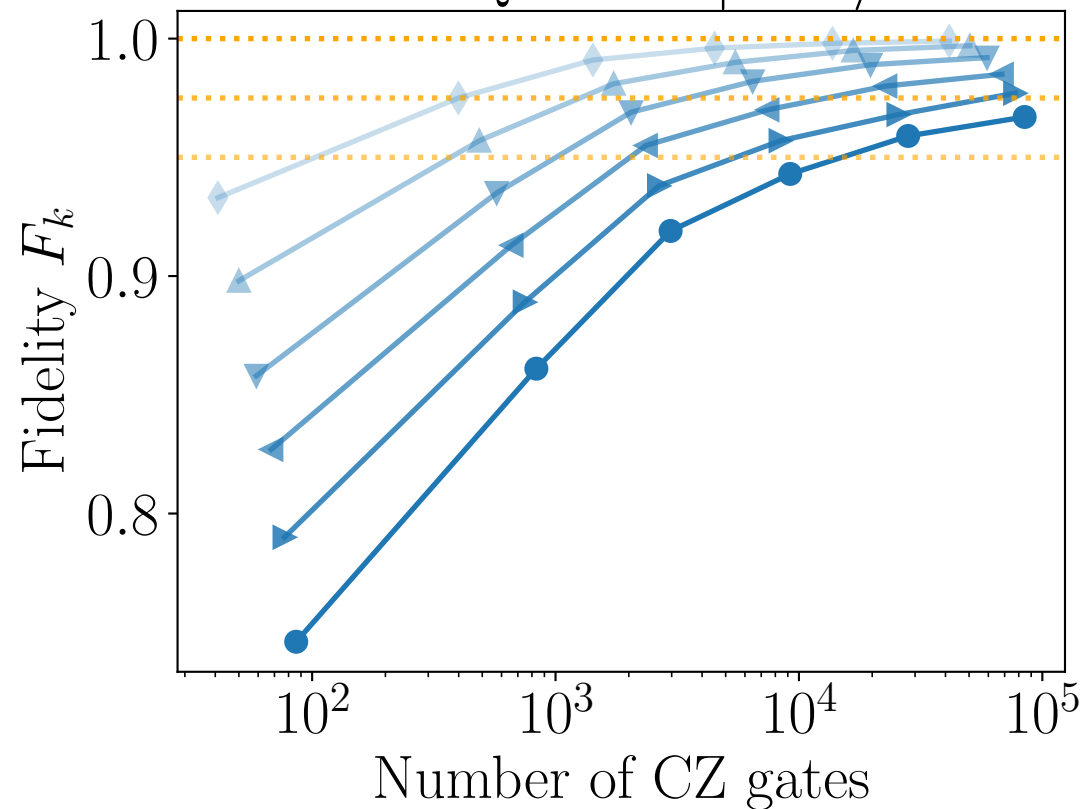


DB-QITE for $|\text{Singlet}\rangle$ QPE for $|\text{Singlet}\rangle$ DB-QITE for $|\text{HVA}\rangle$ QPE for $|\text{HVA}\rangle$ 