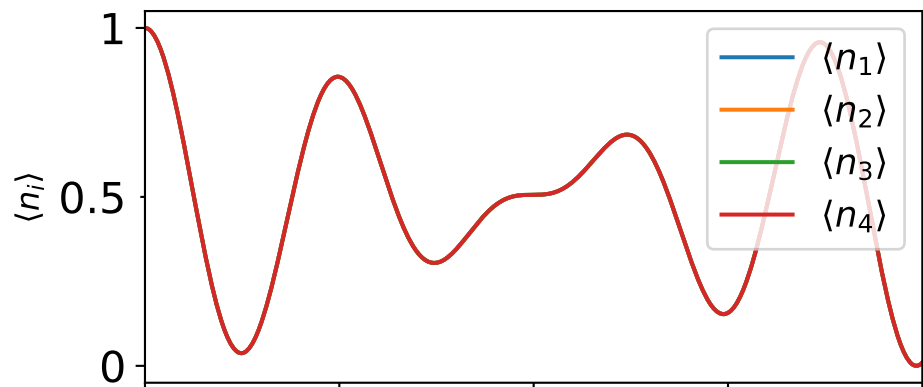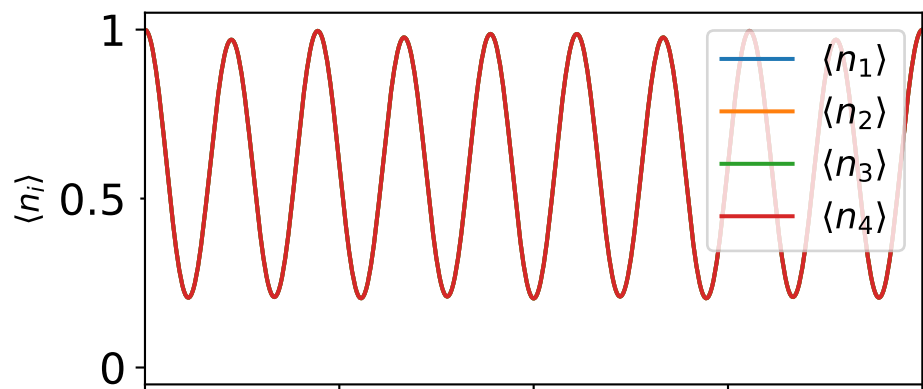Initial state |1111⟩

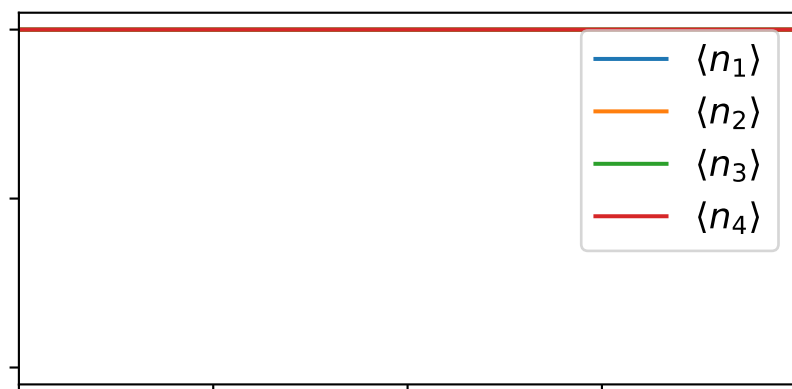a) $\varepsilon = 0$, $t = \Delta$, $t_c = 0.5$, $\varphi = 0$

b) $\varepsilon = 0$, $t = \Delta$, $t_c = 0.5$, $\varphi = \pi$
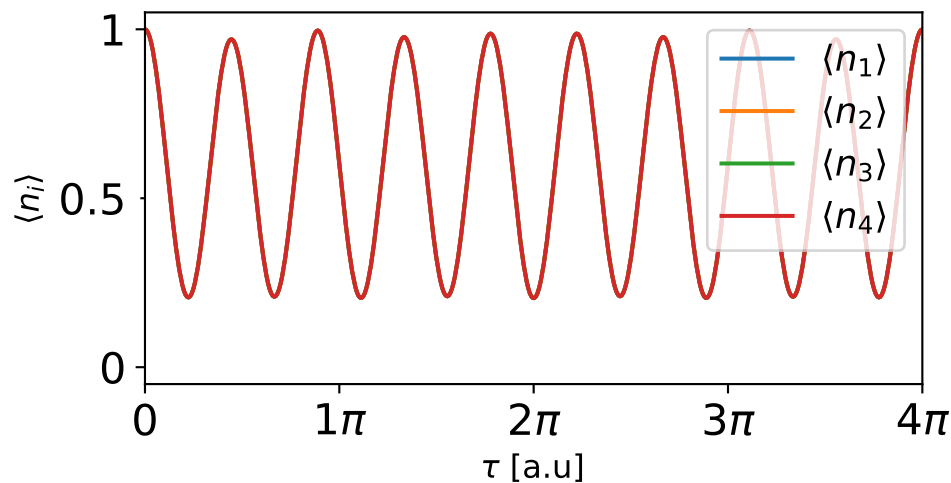
c) $\varepsilon = 1$, $t = 1$, $\Delta = 2$, $t_c = 0.5$, $\varphi = 0$

d) $\varepsilon = 1$, $t = 1$, $\Delta = 2$, $t_c = 0.5$, $\varphi = \pi$

e) $\varepsilon = 1$, $t = 1$, $\Delta = 0.5$, $t_c = 0.5$, $\varphi = 0$

f) $\varepsilon = 1$, $t = 1$, $\Delta = 0.5$, $t_c = 0.5$, $\varphi = \pi$

Legend: $\langle n_1 \rangle$, $\langle n_2 \rangle$, $\langle n_3 \rangle$, $\langle n_4 \rangle$

Axes: $\langle n_i \rangle$ vs τ [a.u]