

2.18 | The Hamiltonian

$$H = \hbar\omega \left(a^\dagger a + \frac{1}{2} \right)$$

We know that in Heisenberg's picture,

$$\begin{aligned} \frac{da}{dt} &= \frac{i}{\hbar} [a, H] \\ &= \frac{i}{\hbar} [a, a^\dagger a] \hbar\omega \\ &= \frac{i}{\hbar} \hbar\omega a \\ &= -i\omega a \end{aligned}$$

$$\Rightarrow a(t) = a(0) e^{-i\omega t}$$

Similarly, $a^\dagger(t) = a^\dagger(0) e^{i\omega t}$

Therefore,

$$\langle x(t) x(0) \rangle =$$

$$\frac{\hbar}{2m\omega} \left\langle \left\{ a^\dagger(0) e^{i\omega t} + a(0) e^{-i\omega t} \right\} \left\{ a^\dagger(0) + a(0) \right\} \right\rangle$$

→ 0

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