Baganne

$$\dot{X} = \frac{\partial \dot{x}}{\partial t} + \frac{i}{h} \left[ \hat{H}, \hat{x} \right] = \frac{i}{anh} \left[ \hat{\beta}^{a}, \hat{x} \right] = -\frac{i\hbar}{m} \partial_{x} = \frac{\hbar}{m}$$

Baganne 2

$$|\psi(t)\rangle = \hat{U}_t |\psi_o\rangle$$

$$\langle\,\chi\,\rangle_{\circ} = \langle\,\psi_{o}\,|\,\,\widehat{\hat{U}}_{t}^{\dagger}\,\widehat{\hat{X}}\,\,\widehat{\hat{U}}_{t}^{\dagger}\,|\,\psi_{o}\,\rangle = \langle\,\psi_{e}\,|\,\,\widehat{\hat{X}}\,|\,\psi_{o}\,\rangle + \frac{\epsilon_{e}t^{*}}{m_{\circ}}$$

$$\widehat{\text{Mak tak}} = \widehat{\hat{u}}_t - \text{gentaper} \quad \Rightarrow \quad \widehat{\hat{u}}^t \widehat{\hat{u}} \circ \widehat{\hat{L}} = \widehat{\hat{u}} \, \widehat{\hat{u}}^t$$

$$<\psi_1|\hat{\hat{x}}\hat{\hat{x}}|\psi> = <\psi_0|\hat{\hat{u}}_t^{\dagger}\hat{\hat{x}}\hat{\hat{I}}\hat{\hat{x}}\hat{\hat{u}}_t|\psi_0> = <\psi_0|\hat{\hat{U}}_t^{\dagger}\hat{\hat{x}}\hat{\hat{U}}_t\hat{\hat{U}}_t^{\dagger}\hat{\hat{x}}\hat{\hat{U}}_t|\psi_0> = <\psi_0|\times^{\iota}|\psi_0> + \frac{\varepsilon_c \varepsilon^{\iota}}{m}<\psi_0|\times|\psi_0> + \frac{\varepsilon_c \varepsilon^{\iota}}{m}=<\times^{\iota}_0> + \frac{\varepsilon_c \varepsilon^{\iota}}{m}<\times^{\iota}_0> + \frac{\varepsilon_c \varepsilon^$$

Задание з