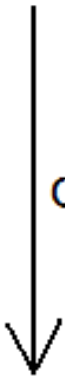


新文法版シュレディンガー方程式への代入

$$\frac{i\hbar}{\alpha} \lim_{\varepsilon \rightarrow 0} \frac{\Phi[X(\square - \varepsilon)] - \Phi[X]}{\varepsilon}$$

$$= \int dt \left\{ \frac{1}{2m} \left[\frac{-i\hbar}{\alpha} \cdot \frac{\delta}{\delta X(t)} \right]^2 + V(t) \right\} \Phi[X]$$



$$\Phi[X] = \int Dp \exp \int d\tau [f(p(\tau), \tau) + i p(\tau) X(\tau)]$$

$$\begin{aligned} & \frac{i\hbar}{\alpha} \int Dp \left\{ \right. \\ & \quad \left. i \int dt \dot{p}(t) X(t) \exp \int d\tau [f(p(\tau), \tau) + i p(\tau) X(\tau)] \right\} \\ & = \int Dp \int dt \left\{ \frac{1}{2m} \left[\frac{\hbar}{\alpha} p(t) \right]^2 + V(t) \right\} \\ & \quad \times \exp \int d\tau [f(p(\tau), \tau) + i p(\tau) X(\tau)] \end{aligned}$$