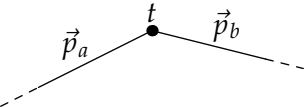
 \leftrightarrow

$$\theta(t_b - t_a) e^{-\frac{i}{\hbar} \frac{\vec{p}^2}{2m} (t_b - t_a)}$$

 \leftrightarrow

$$-\frac{i}{\hbar} \tilde{V}(\vec{p}_b - \vec{p}_a, t)$$