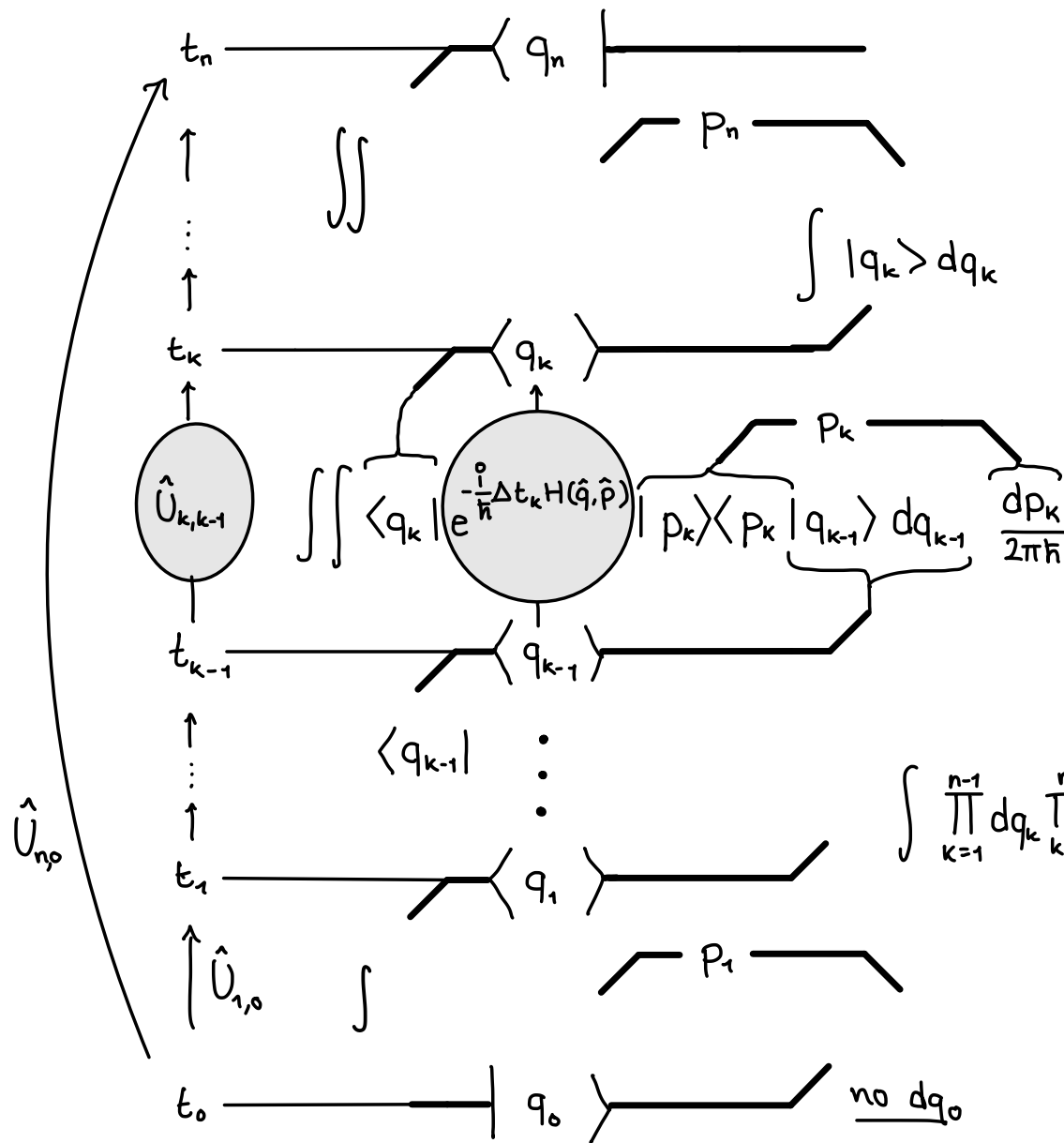


$$A_{f,i} = A_{n,0} = \langle q_n, t_n | q_0, t_0 \rangle$$

$$= \langle q_n | U_{n,0} | q_0 \rangle$$



$$\int \prod_{k=1}^{n-1} dq_k \prod_{k=1}^n \frac{dp_k}{2\pi\hbar} \exp \left[\frac{i}{\hbar} \sum_{k=1}^n p_k (q_k - q_{k-1}) - (t_k - t_{k-1}) H(\bar{q}_k, p_k) \right]$$

$$\begin{aligned} & \downarrow \\ & S_{n,0}^0[p,q] \\ & \downarrow \\ & S_{n,0}[p,q] \\ & \downarrow \\ & \int \mathcal{D}q \mathcal{D}p e^{\frac{i}{\hbar} \int dt (p\dot{q} - H)} \end{aligned}$$