

$$\int_{t_0}^{t_1} \mathrm{d}t \left\{ \psi(\tilde{q}, t) \delta \tilde{q}(t) + \frac{\mathrm{d}}{\mathrm{d}t} [L(T_t \tilde{q}, t) \delta t + W(T_t \tilde{q}, t) + U(T_t \tilde{q}, t)] \right\} = 0$$