



$$\int dt \left[ \frac{1}{2m} \left( -\frac{i\hbar}{\alpha} \frac{\delta}{\delta \chi(t)} - m \dot{\chi}(t) \right)^2 - \frac{m}{2} [\dot{\chi}(t)]^2 \right] \Phi[\chi] = 0$$



$$\sum_{k=1}^n \varepsilon \left\{ \frac{1}{2m} \left( -\frac{i\hbar}{\alpha} \frac{1}{\varepsilon} \frac{\partial}{\partial \chi(k\varepsilon)} - m \frac{\chi(k\varepsilon + \varepsilon) - \chi(k\varepsilon)}{\varepsilon} \right)^2 - \frac{m}{2} \left[ \frac{\chi(k\varepsilon + \varepsilon) - \chi(k\varepsilon)}{\varepsilon} \right]^2 \right\} \Phi(\chi(\varepsilon), \chi(2\varepsilon), \dots, \chi(n\varepsilon)) = 0$$

$$n = T / \varepsilon$$

