

$$(i) \quad \begin{array}{c} p \\ \xrightarrow{\hat{\mathcal{K}}_q} \end{array} \equiv \begin{array}{c} p \\ \longrightarrow \end{array} + \begin{array}{c} p \\ \xrightarrow{\mathbf{x} \mu(\chi)} \end{array}$$

$$(ii) \quad \begin{array}{c} p \\ \xrightarrow{\hat{\mathcal{K}}_g} \end{array} \equiv \begin{array}{c} p \\ \xrightarrow{\quad} \end{array} + \begin{array}{c} p \\ \xrightarrow{\mathbf{x} (\kappa(\chi)-1)^{-1}} \end{array}$$

$$(iii) \quad \begin{array}{c} p \\ \xrightarrow{\hat{\mathcal{K}}_\chi} \end{array} \equiv \begin{array}{c} p \\ \xrightarrow{\quad} \end{array} + \begin{array}{c} p \\ \xrightarrow{\mathbf{x} m_\chi} \end{array} \quad m_\chi = \left(\frac{\partial^2 V}{\partial \chi^2} \right)^{1/2}$$

$$(iv) \quad \begin{array}{c} p \\ \xrightarrow{\hat{\mathcal{K}}_U} \end{array} \equiv \begin{array}{c} p \\ \xrightarrow{\quad} \end{array} + \begin{array}{c} p \\ \xrightarrow{\mathbf{x} m_U} \end{array} \quad m_U = \left(\frac{\partial^2 V}{\partial U^2} \right)^{1/2}$$