

$$\left\{ \mathbb{E} \left[\theta, \theta, \right.$$

$$\left. \sqrt{T_1} - \hbar \mathbf{a}_1 \sqrt{T_1} \epsilon + \frac{1}{2} \hbar^2 \mathbf{a}_1^2 \sqrt{T_1} \epsilon^2 - \frac{1}{6} \left(\hbar^3 \mathbf{a}_1^3 \sqrt{T_1} \right) \epsilon^3 + \mathbf{0} [\epsilon]^4 \right],$$

$$\left. \mathbb{E} \left[\theta, \theta, \frac{1}{\sqrt{T_2}} + \frac{\hbar \mathbf{a}_2 \epsilon}{\sqrt{T_2}} + \frac{\hbar^2 \mathbf{a}_2^2 \epsilon^2}{2 \sqrt{T_2}} + \frac{\hbar^3 \mathbf{a}_2^3 \epsilon^3}{6 \sqrt{T_2}} + \mathbf{0} [\epsilon]^4 \right] \right\}$$