

$$\mathbb{E} \left[(\mathbf{a}_1 + \mathbf{a}_2) \alpha_1 + (\mathbf{t}_1 + \mathbf{t}_2) \tau_1, \mathbf{y}_1 \eta_1 + \mathbf{T}_1 \mathbf{y}_2 \eta_1 + \mathbf{x}_1 \xi_1 + \mathbf{x}_2 \xi_1, \right. \\ \left. \mathbf{1} + \frac{1}{2} \left(-2 \hbar \mathbf{a}_1 \mathbf{T}_1 \mathbf{y}_2 \eta_1 + \gamma \hbar \mathbf{T}_1 \mathbf{y}_1 \mathbf{y}_2 \eta_1^2 - 2 \hbar \mathbf{a}_1 \mathbf{x}_2 \xi_1 + \gamma \hbar \mathbf{x}_1 \mathbf{x}_2 \xi_1^2 \right) \epsilon + \right. \\ \left. \mathbf{0} [\epsilon]^2 \right]$$