

$$\begin{aligned} & \mathbb{E} \left[(\bar{a}_1 + \bar{a}_2) \alpha_1 + (t_1 + t_2) \tau_1, y_1 \eta_1 + T_1 y_2 \eta_1 + x_1 \xi_1 + x_2 \xi_1, \right. \\ & \quad \left. 1 + \frac{1}{2} (-2\hbar \bar{a}_1 T_1 y_2 \eta_1 + \gamma \hbar T_1 y_1 y_2 \eta_1^2 - 2\hbar \bar{a}_1 x_2 \xi_1 + \gamma \hbar x_1 x_2 \xi_1^2) \in + \right. \\ & \quad \left. 0 [\epsilon]^2 \right] \end{aligned}$$