

$$\begin{aligned}
\mathbb{E}_{\{\} \rightarrow \{1\}} & \left[ \mathbf{0}, \mathbf{0}, \frac{\mathbf{T}}{\mathbf{1} - \mathbf{T} + \mathbf{T}^2} + \frac{\mathbf{1}}{(\mathbf{1} - \mathbf{T} + \mathbf{T}^2)^3} \mathbf{T} \hbar \left( 2 \mathbf{a} \left( -\mathbf{1} + \mathbf{T} - \mathbf{T}^3 + \mathbf{T}^4 \right) + \right. \right. \\
& \left. \left. \mathbf{T} \left( -\mathbf{1} + 2 \mathbf{T} - 3 \mathbf{T}^2 + 2 \mathbf{T}^3 \right) \gamma - 2 \left( \mathbf{1} + \mathbf{T}^3 \right) \mathbf{x} \mathbf{y} \gamma \hbar \right) \epsilon + \right. \\
& \frac{\mathbf{1}}{2 \left( \mathbf{1} - \mathbf{T} + \mathbf{T}^2 \right)^5} \mathbf{T} \hbar^2 \left( 4 \mathbf{a}^2 \left( \mathbf{1} - \mathbf{T} + \mathbf{T}^2 \right)^2 \left( \mathbf{1} + \mathbf{T} - 6 \mathbf{T}^2 + \mathbf{T}^3 + \mathbf{T}^4 \right) + \right. \\
& \left. 4 \mathbf{a} \left( \mathbf{1} - \mathbf{T} + \mathbf{T}^2 \right) \gamma \left( \mathbf{T} \left( 2 - 5 \mathbf{T} + 8 \mathbf{T}^2 - 7 \mathbf{T}^3 - 2 \mathbf{T}^4 + 2 \mathbf{T}^5 \right) - \right. \\
& \left. 2 \left( -\mathbf{1} - 2 \mathbf{T} + 5 \mathbf{T}^2 - 4 \mathbf{T}^3 + \mathbf{T}^4 + 2 \mathbf{T}^5 \right) \mathbf{x} \mathbf{y} \hbar \right) + \\
& \gamma^2 \left( \mathbf{T} \left( \mathbf{1} - 2 \mathbf{T} + 4 \mathbf{T}^2 - 2 \mathbf{T}^3 + 6 \mathbf{T}^5 - 11 \mathbf{T}^6 + 4 \mathbf{T}^7 \right) + \right. \\
& \left. 4 \left( -\mathbf{1} + 2 \mathbf{T} + \mathbf{T}^3 + \mathbf{T}^4 + 2 \mathbf{T}^6 - \mathbf{T}^7 \right) \mathbf{x} \mathbf{y} \hbar + \right. \\
& \left. \left. 6 \left( \mathbf{1} - \mathbf{T} + \mathbf{T}^2 \right)^2 \left( \mathbf{1} + 3 \mathbf{T} + \mathbf{T}^2 \right) \mathbf{x}^2 \mathbf{y}^2 \hbar^2 \right) \right) \epsilon^2 + \mathbf{0}[\epsilon]^3 \Big]
\end{aligned}$$