

$$E_{\{1\} \rightarrow \{1\}} \left[ 0, 0, -X_1 + (\hbar X_1 - \hbar a_1 X_1) \epsilon + \left( -\frac{1}{2} \hbar^2 X_1 + \hbar^2 a_1 X_1 - \frac{1}{2} \hbar^2 a_1^2 X_1 \right) \epsilon^2 + O[\epsilon]^3 \right]$$