

$$E_{\{1\} \rightarrow \{1,2,3\}} \left[\hbar a_3 b_1 + \hbar a_3 b_2, \hbar B_2 x_3 y_1 + \hbar x_3 y_2, 1 + \left(-\frac{1}{4} \hbar^3 B_2^2 x_3^2 y_1^2 - \frac{1}{4} \hbar^3 x_3^2 y_2^2 \right) \epsilon + O[\epsilon]^2 \right]$$