

$$E_{(1) \rightarrow (1,2)} \left[-\hbar a_2 b_1, -\frac{\hbar x_2 y_1}{B_1}, 1 + \left(-\frac{\hbar^2 a_2 x_2 y_1}{B_1} - \frac{3 \hbar^3 x_2^2 y_1^2}{4 B_1^2} \right) \epsilon + O[\epsilon]^2 \right]$$