

$$E_{(0) \rightarrow (1)} \left[ \hbar a_1 b_1, \hbar x_1 y_1, \frac{1}{\sqrt{B_1}} + \left( \frac{\hbar a_1}{2 \sqrt{B_1}} - \frac{\hbar^3 x_1^2 y_1^2}{4 \sqrt{B_1}} \right) \epsilon + O[\epsilon]^2 \right]$$