

$$E_{(1) \rightarrow (1,2)} \left[a_1 \alpha_1 + a_2 \alpha_1, x_1 \xi_1 + x_2 \xi_1, 1 + \left(-\hbar a_1 x_2 \xi_1 + \frac{1}{2} \hbar x_1 x_2 \xi_1^2 \right) \epsilon + O[\epsilon]^2 \right]$$