

$$E(i) \rightarrow (j,k) \left[a_j \alpha_i + a_k \alpha_i + t_j \tau_i + t_k \tau_i, y_j \eta_i + T_j y_k \eta_i + x_j \xi_i + x_k \xi_i, \right.$$

$$\left. 1 + \left(-\hbar a_j T_j y_k \eta_i + \frac{1}{2} \hbar T_j y_j y_k \eta_i^2 - \hbar a_j x_k \xi_i + \frac{1}{2} \hbar x_j x_k \xi_i^2 \right) \epsilon + O[\epsilon]^2 \right]$$