$$\mathbb{E}_{\{\mathtt{i},\mathtt{j}\}\to\{\mathtt{k}\}}\Bigg[\mathsf{a_k}\,\alpha_\mathtt{i} + \mathsf{a_k}\,\alpha_\mathtt{j} + \mathsf{t_k}\,\tau_\mathtt{i} + \mathsf{t_k}\,\tau_\mathtt{j},$$

$$\mathsf{y_k}\,\eta_\mathtt{i} + \frac{\mathsf{y_k}\,\eta_\mathtt{j}}{\mathcal{A}_\mathtt{i}} + \frac{\mathsf{x_k}\,\xi_\mathtt{i}}{\mathcal{A}_\mathtt{j}} + \frac{(1-\mathsf{T_k})\,\eta_\mathtt{j}\,\xi_\mathtt{i}}{\hbar} + \mathsf{x_k}\,\xi_\mathtt{j},\ 1 + \Bigg(2\,\mathsf{a_k}\,\mathsf{T_k}\,\eta_\mathtt{j}\,\xi_\mathtt{i} + \frac{\hbar\,\mathsf{x_k}\,\mathsf{y_k}\,\eta_\mathtt{j}\,\xi_\mathtt{i}}{\mathcal{A}_\mathtt{i}\,\mathcal{A}_\mathtt{j}} +$$

$$\frac{(1-3\,\mathsf{T_k})\,\mathsf{y_k}\,\eta_\mathtt{j}^2\,\xi_\mathtt{i}}{2\,\mathcal{A}_\mathtt{i}} + \frac{(1-3\,\mathsf{T_k})\,\mathsf{x_k}\,\eta_\mathtt{j}\,\xi_\mathtt{i}^2}{2\,\mathcal{A}_\mathtt{j}} + \frac{\left(1-4\,\mathsf{T_k}+3\,\mathsf{T_k}^2\right)\,\eta_\mathtt{j}^2\,\xi_\mathtt{i}^2}{4\,\hbar}\Bigg)\,\epsilon + O[\epsilon]^2\Bigg]$$