

$$\begin{aligned}
& \mathbb{E}_{\{\mathbf{i}, \mathbf{j}\} \rightarrow \{\mathbf{k}\}} \left[\mathbf{y}_{1,4}[\mathbf{k}] \left(\eta_{1,4}[\mathbf{i}] + e^{-\xi_{1,1}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{1,4}[\mathbf{j}] \right) + \right. \\
& \mathbf{x}_{1,1}[\mathbf{k}] \left(\xi_{1,1}[\mathbf{i}] + \xi_{1,1}[\mathbf{j}] \right) + \mathbf{y}_{2,4}[\mathbf{k}] \left(\eta_{2,4}[\mathbf{i}] + e^{-\xi_{2,2}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{2,4}[\mathbf{j}] - e^{\xi_{4,4}[\mathbf{i}]} \eta_{1,4}[\mathbf{j}] \xi_{1,2}[\mathbf{i}] \right) + \\
& \mathbf{x}_{1,2}[\mathbf{k}] \left(e^{-\xi_{1,1}[\mathbf{j}]} \xi_{1,2}[\mathbf{i}] + e^{-\xi_{2,2}[\mathbf{i}]} \xi_{1,2}[\mathbf{j}] \right) + \mathbf{x}_{2,2}[\mathbf{k}] \left(\xi_{2,2}[\mathbf{i}] + \xi_{2,2}[\mathbf{j}] \right) + \\
& \mathbf{y}_{3,4}[\mathbf{k}] \left(\eta_{3,4}[\mathbf{i}] + e^{-\xi_{3,3}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{3,4}[\mathbf{j}] - e^{\xi_{4,4}[\mathbf{i}]} \eta_{1,4}[\mathbf{j}] \xi_{1,3}[\mathbf{i}] - e^{\xi_{4,4}[\mathbf{i}]} \eta_{2,4}[\mathbf{j}] \xi_{2,3}[\mathbf{i}] \right) + \\
& \ll 4 \gg + \mathbf{y}_{2,3}[\mathbf{k}] \left(\eta_{2,3}[\mathbf{i}] + e^{-\xi_{2,2}[\mathbf{i}] + \xi_{3,3}[\mathbf{i}]} \eta_{2,3}[\mathbf{j}] - e^{\xi_{3,3}[\mathbf{i}]} \eta_{1,3}[\mathbf{j}] \xi_{1,2}[\mathbf{i}] + \right. \\
& \left. e^{-\xi_{2,2}[\mathbf{i}] + \xi_{3,3}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{2,4}[\mathbf{j}] \xi_{3,4}[\mathbf{i}] - e^{\xi_{3,3}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{1,4}[\mathbf{j}] \xi_{1,2}[\mathbf{i}] \xi_{3,4}[\mathbf{i}] \right) + \\
& \mathbf{x}_{1,4}[\mathbf{k}] \left(e^{-\xi_{1,1}[\mathbf{j}]} \xi_{1,4}[\mathbf{i}] + e^{-\xi_{4,4}[\mathbf{i}]} \xi_{1,4}[\mathbf{j}] - \xi_{1,2}[\mathbf{j}] \xi_{2,4}[\mathbf{i}] - \xi_{1,3}[\mathbf{j}] \xi_{3,4}[\mathbf{i}] \right) + \\
& e^{-\xi_{1,1}[\mathbf{i}]} \mathbf{y}_{1,2}[\mathbf{k}] \left(e^{\xi_{1,1}[\mathbf{i}]} \eta_{1,2}[\mathbf{i}] + e^{\xi_{2,2}[\mathbf{i}]} \eta_{1,2}[\mathbf{j}] + e^{\xi_{2,2}[\mathbf{i}] + \xi_{3,3}[\mathbf{i}]} \eta_{1,3}[\mathbf{j}] \xi_{2,3}[\mathbf{i}] + \right. \\
& \left. e^{\xi_{2,2}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{1,4}[\mathbf{j}] \xi_{2,4}[\mathbf{i}] + e^{\xi_{2,2}[\mathbf{i}] + \xi_{3,3}[\mathbf{i}] + \xi_{4,4}[\mathbf{i}]} \eta_{1,4}[\mathbf{j}] \xi_{2,3}[\mathbf{i}] \xi_{3,4}[\mathbf{i}] \right) + \\
& \mathbf{x}_{2,4}[\mathbf{k}] \left(e^{-\xi_{2,2}[\mathbf{j}]} \xi_{2,4}[\mathbf{i}] + e^{-\xi_{4,4}[\mathbf{i}]} \xi_{2,4}[\mathbf{j}] - \xi_{2,3}[\mathbf{j}] \xi_{3,4}[\mathbf{i}] \right) + \mathbf{x}_{3,4}[\mathbf{k}] \left(e^{-\xi_{3,3}[\mathbf{j}]} \xi_{3,4}[\mathbf{i}] + e^{-\xi_{4,4}[\mathbf{i}]} \xi_{3,4}[\mathbf{j}] \right) + \\
& \left. \mathbf{x}_{4,4}[\mathbf{k}] \left(\xi_{4,4}[\mathbf{i}] + \xi_{4,4}[\mathbf{j}] \right), \ll 1 \gg \right]
\end{aligned}$$