$$c\Lambda = \left(\eta_i + \frac{e^{-\gamma\,\alpha_i - \epsilon\,\beta_i}\,\eta_j}{1 + \gamma\,\epsilon\,\eta_j\,\xi_i}\right) y_k + \left(\beta_i + \beta_j + \frac{\text{Log}[1 + \gamma\,\epsilon\,\eta_j\,\xi_i]}{\epsilon}\right) b_k +$$

$$\left(\alpha_i + \alpha_j + \frac{\text{Log}[1 + \gamma\,\epsilon\,\eta_j\,\xi_i]}{\gamma}\right) a_k + \left(\frac{e^{-\gamma\,\alpha_j - \epsilon\,\beta_j}\,\xi_i}{1 + \gamma\,\epsilon\,\eta_j\,\xi_i} + \xi_j\right) x_k;$$

$$\text{Define}\left[cm_{i,j\to k} = \mathbb{E}_{\{i,j\}\to\{k\}}[c\Lambda]\right]$$