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

```
Define[
  cm_{i,j→k} =
```

$$\Lambda 2\mathbb{E}_{\{i,j\}\to\{k\}}\left[\left(\eta_i + \frac{e^{-\alpha_i - \epsilon \beta_i} \eta_j}{1 + \epsilon \eta_j \xi_i}\right) y_k + \left(\beta_i + \beta_j + \frac{\text{Log}[1 + \epsilon \eta_j \xi_i]}{\epsilon}\right) b_k + (\alpha_i + \alpha_j + \text{Log}[1 + \epsilon \eta_j \xi_i]) a_k + \left(\frac{e^{-\alpha_j - \epsilon \beta_j} \xi_i}{1 + \epsilon \eta_j \xi_i} + \xi_j\right) x_k\right]\Big]$$