$$dm_{i,j\to k} \to a_k \ (\alpha_i + \alpha_j) + b_k \ (\beta_i + \beta_j) + y_k \ \eta_i + \frac{y_k \ \eta_j}{\mathcal{A}_i} + \frac{x_k \ \xi_i}{\mathcal{A}_j} + \eta_j \ \xi_i -$$

$$B_k \ \eta_j \ \xi_i + \frac{1}{4 \ \mathcal{A}_i \ \mathcal{A}_j} \in \left(2 \ y_k \ \eta_j \ (2 \ x_k \ \xi_i + \mathcal{A}_j \ (-2 \ \beta_i + (1 - 3 \ B_k) \ \eta_j \ \xi_i)) + \right.$$

$$\mathcal{A}_i \ \xi_i \ \left(x_k \ (-4 \ \beta_j + 2 \ (1 - 3 \ B_k) \ \eta_j \ \xi_i) + \right.$$

$$\left. \left. \mathcal{A}_j \ \eta_j \ \left(4 \ a_k \ B_k + \left(1 - 4 \ B_k + 3 \ B_k^2 \right) \ \eta_j \ \xi_i \right) \right) \right) + x_k \ \xi_j$$

$$d\triangle_{i\to j,k} \to a_j \ \alpha_i + a_k \ \alpha_i + b_j \ \beta_i + b_k \ \beta_i + y_j \ \eta_i + B_j \ y_k \ \eta_i +$$

$$x_j \ \xi_i + x_k \ \xi_i + \frac{1}{2} \in \left(B_j \ y_j \ y_k \ \eta_i^2 + x_k \ \xi_i \ (-2 \ a_j + x_j \ \xi_i) \right)$$

$$dS_i \to -a_i \ \alpha_i - b_i \ \beta_i - \frac{\mathcal{A}_i \ (y_i \ \eta_i + (-\eta_i + B_i \ (x_i + \eta_i)) \ \xi_i)}{B_i} -$$

$$\frac{1}{4 \ B_i^2} \in \mathcal{A}_i \ \left(\mathcal{A}_i \ \eta_i^2 \ \left(2 \ y_i^2 - 6 \ y_i \ \xi_i + 3 \ \xi_i^2 \right) + B_i^2 \ \xi_i \ \left(4 \ a_i \ x_i + 2 \ x_i^2 \ \mathcal{A}_i \ \xi_i + \right. \right.$$

$$2 \ x_i \ (2 \ \beta_i + \mathcal{A}_i \ \eta_i \ \xi_i) + \eta_i \ (-4 + 4 \ \beta_i + \mathcal{A}_i \ \eta_i \ \xi_i)) +$$

$$2 \ B_i \ \eta_i \ (y_i \ (-2 + 2 \ \beta_i + 2 \ x_i \ \mathcal{A}_i \ \xi_i + \mathcal{A}_i \ \eta_i \ \xi_i) -$$

$$\left. \left. \xi_i \ (-2 + 2 \ a_i + 2 \ \beta_i + 3 \ x_i \ \mathcal{A}_i \ \xi_i + 2 \ \mathcal{A}_i \ \eta_i \ \xi_i) \right) \right)$$

$$R_{i,j} \to a_j \ b_i + x_j \ y_i - \frac{1}{4} \in x_j^2 \ y_i^2$$

$$P_{i,j} \to \alpha_j \ \beta_i + \eta_i \ \xi_j + \frac{1}{4} \in \eta_i^2 \ \xi_j^2$$