

Define [

$$dm_{i,j \rightarrow k} =$$

$$\left(\mathbb{E}_{\{i,j\} \rightarrow \{i,j\}} [\beta_i b_i + \alpha_j a_j, \eta_i y_i + \xi_j x_j, \mathbf{1}] \right.$$

$$\left. \left(a\Delta_{i \rightarrow 1,2} // a\Delta_{2 \rightarrow 2,3} // \overline{aS}_3 \right) \left(b\Delta_{j \rightarrow -1,-2} // b\Delta_{-2 \rightarrow -2,-3} \right) // \right.$$

$$\left. \left(P_{-1,3} P_{-3,1} am_{2,j \rightarrow k} bm_{i,-2 \rightarrow k} \right), \right.$$

$$dS_i = \mathbb{E}_{\{i\} \rightarrow \{1,2\}} [\beta_i b_1 + \alpha_i a_2, \eta_i y_1 + \xi_i x_2, \mathbf{1}] // \left(\overline{bS}_1 aS_2 \right) //$$

$$dm_{2,1 \rightarrow i},$$

$$d\Delta_{i \rightarrow j,k} = \left(b\Delta_{i \rightarrow 3,1} a\Delta_{i \rightarrow 2,4} \right) // \left(dm_{3,4 \rightarrow k} dm_{1,2 \rightarrow j} \right)]$$