

$$M(\gamma_0 | \begin{smallmatrix} \alpha_1, \dots, \alpha_L \\ \beta_1, \dots, \beta_L \end{smallmatrix} | \gamma_L) = \sum_{\gamma_1, \dots, \gamma_{L-1} \in B_l} \gamma_0 \begin{array}{c} \alpha_1 \\ \updownarrow \\ \beta_1 \end{array} \gamma_1 \begin{array}{c} \alpha_2 \\ \updownarrow \\ \beta_2 \end{array} \gamma_2 \cdots \gamma_{L-1} \begin{array}{c} \alpha_L \\ \updownarrow \\ \beta_L \end{array} \gamma_L.$$