

$$\delta_{i\_ , j\_} := \text{If}[i === j, 1, 0];$$

$$\text{gRules}_{s\_ , i\_ , j\_} := \left\{ \mathbf{g}_{i\beta\_} \mapsto \delta_{i\beta} + T^s \mathbf{g}_{i^+ , \beta} + (1 - T^s) \mathbf{g}_{j^+ , \beta}, \mathbf{g}_{j\beta\_} \mapsto \delta_{j\beta} + \mathbf{g}_{j^+ , \beta}, \right.$$

$$\left. \mathbf{g}_{\alpha\_ , i} \mapsto T^{-s} (\mathbf{g}_{\alpha , i^+} - \delta_{\alpha , i^+}), \mathbf{g}_{\alpha\_ , j} \mapsto \mathbf{g}_{\alpha , j^+} - (1 - T^s) \mathbf{g}_{\alpha i} - \delta_{\alpha , j^+} \right\}$$

$$(\alpha\_^+)^+ := \alpha^{++}; \quad (* \text{ this is for cosmetic reasons only } *)$$