

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

$$\text{gRules}_{s\_ , i\_ , j\_} :=$$

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

$$\mathbf{g}_{\alpha\_ , i} \mapsto T^{-s} (\mathbf{g}_{\alpha, i^+} - \delta_{\alpha, i^+}),$$

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