

More Unitarity

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$$R_{ab}^{\pm} = \begin{array}{c|cc} & a & b \\ \hline a & 1 & 1 - T_a^{\pm 1} \\ b & 0 & T_a^{\pm 1} \end{array}$$

$$R_{ba}^{-} = \begin{array}{c|cc} & a & b \\ \hline a & T_b^{-1} & 0 \\ b & 1 - T_b^{-1} & 1 \end{array}$$

$$\begin{aligned} \bar{U} U^T = \mathcal{L} &\Leftrightarrow U \bar{U}^T = \bar{\mathcal{L}} \Leftrightarrow U^{-1} = \bar{\mathcal{L}} \bar{U}^T \bar{\mathcal{L}}^{-1} \\ &\Leftrightarrow \bar{\mathcal{L}} \bar{U}^T = U^{-1} \bar{\mathcal{L}} \end{aligned}$$

