$$\frac{1}{U(\boldsymbol{\alpha})} = \frac{1}{V(\boldsymbol{\alpha_1})} \begin{bmatrix} R_z^{01}(\boldsymbol{\alpha_1}) \\ R_z^{02}(\boldsymbol{\alpha_2}) \end{bmatrix} \begin{bmatrix} P_m(\boldsymbol{\alpha_3}) \\ V(\boldsymbol{\alpha_1})^{\dagger} \end{bmatrix}$$