

$$\mathcal{A}_{2112} = \mathcal{A}@\{X_{3,8,7,2}, X_{7,10,9,1}, X_{10,11,4,9}, X_{8,6,5,11}\};$$

$$\mathcal{A}_{1221} = \mathcal{A}@\{X_{2,8,7,1}, X_{3,10,9,8}, X_{10,6,11,9}, X_{11,5,4,7}\};$$

$$\mathcal{A}_{2211} = \mathcal{A}@\{X_{3,8,7,2}, X_{8,6,9,7}, X_{9,11,10,1}, X_{11,5,4,10}\};$$

$$\mathcal{A}_{1122} = \mathcal{A}@\{X_{2,8,7,1}, X_{8,9,4,7}, X_{3,11,10,9}, X_{11,6,5,10}\};$$

$$\mathcal{A}_{11} = \mathcal{A}@\{X_{2,8,7,1}, X_{8,5,4,7}, P_{3,6}\}; \quad \mathcal{A}_{22} = \mathcal{A}@\{X_{3,8,7,2}, X_{8,6,5,7}, P_{1,4}\};$$

$$\mathcal{A}_\emptyset = \mathcal{A}@\{P_{1,4}, P_{2,5}, P_{3,6}\};$$

$$\mathbf{g}_+[z_-] := z^{1/2} + z^{-1/2}; \quad \mathbf{g}_-[z_-] := z^{1/2} - z^{-1/2};$$

$$\mathbf{g}_+[\tau_1] \mathbf{g}_-[\tau_2] \mathcal{A}_{2112} - \mathbf{g}_-[\tau_2] \mathbf{g}_+[\tau_3] \mathcal{A}_{1221} - \mathbf{g}_-[\tau_3 / \tau_1] (\mathcal{A}_{2211} + \mathcal{A}_{1122}) + \\ \mathbf{g}_-[\tau_2 \tau_3 / \tau_1] \mathbf{g}_+[\tau_3] \mathcal{A}_{11} - \mathbf{g}_+[\tau_1] \mathbf{g}_-[\tau_1 \tau_2 / \tau_3] \mathcal{A}_{22} \equiv \mathbf{g}_-[\tau_3^2 / \tau_1^2] \mathcal{A}_\emptyset$$