Fusion data for a solution to the fusion rules for $\mathcal{H}$, the principal even half of the Haagerup subfactor.

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1 notes

The data presented here are the F-matrices for the principle even half of the Haagerup subfactor. In the following, let $\lambda = \imath\sqrt{\frac{-1+\sqrt{13}}{6}}$ as in Morrison-Snyder arxiv:1002.0168v2. Object notation is taken from Grossman-Snyder, arxiv:1102.2631v2.

2 F-Matrices

- $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ -\sqrt{-3\lambda^2-1} & \lambda^2 & -\lambda^2-1 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2-1 & \lambda^2 & \lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & \lambda^2+1 \end{pmatrix}$
  - $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha^2\xi}$
- $F^d_{abc} = \begin{pmatrix} 3\lambda^2+1 & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2-1 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2-1 & -\lambda^2 & -\lambda^2 \\ -\sqrt{-3\lambda^2-1} & \lambda^2 & \lambda^2 & \lambda^2+1 \end{pmatrix}$
  - $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha\xi,\alpha^2\xi}$
- $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ -\sqrt{-3\lambda^2-1} & -\lambda^2-1 & -\lambda^2 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & \lambda^2 & \lambda^2 & \lambda^2+1 \\ -\sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2-1 & -\lambda^2 \end{pmatrix}$
  - $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2-1 & \lambda^2 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & -\lambda^2-1 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ -\sqrt{-3\lambda^2-1} & \lambda^2 & -\lambda^2 & -\lambda^2-1 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & \lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2-1 & \lambda^2 & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & \lambda^2+1 & \lambda^2 & -\lambda^2 \\ -\sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2 & \lambda^2+1 \\ \sqrt{-3\lambda^2-1} & \lambda^2 & \lambda^2+1 & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\alpha\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} 3\lambda^2+1 & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2 & \lambda^2+1 \\ -\sqrt{-3\lambda^2-1} & \lambda^2 & \lambda^2+1 & -\lambda^2 \\ -\sqrt{-3\lambda^2-1} & \lambda^2+1 & \lambda^2 & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha\xi,\alpha^2\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ -\sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2 & \lambda^2+1 \\ \sqrt{-3\lambda^2-1} & \lambda^2 & \lambda^2+1 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & \lambda^2+1 & \lambda^2 & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} 3\lambda^2+1 & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2-1 & \lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2-1 & -\lambda^2 & \lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & -\lambda^2 & \lambda^2+1 \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} 3\lambda^2+1 & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & \lambda^2+1 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & \lambda^2 \\ -\sqrt{-3\lambda^2-1} & \lambda^2+1 & -\lambda^2 & -\lambda^2 \end{pmatrix}$

- $\mathrm{F}^{\alpha\xi}_{\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha\xi,\xi}$

• $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ -\sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & \lambda^2+1 & -\lambda^2 & \lambda^2 \\ -\sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & -\lambda^2-1 \end{pmatrix}$

- $\mathrm{F}^{\xi}_{\xi,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\xi,\xi}$

• $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & \lambda^2+1 & -\lambda^2 & \lambda^2 \\ \sqrt{-3\lambda^2-1} & \lambda^2 & -\lambda^2 & \lambda^2+1 \\ -\sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & -\lambda^2 \end{pmatrix}$

- $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{\xi,\alpha^2\xi,\xi}$

• $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & \lambda^2+1 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & \lambda^2 \\ -\sqrt{-3\lambda^2-1} & \lambda^2+1 & -\lambda^2 & -\lambda^2 \end{pmatrix}$

- $\mathrm{F}^{\alpha^2\xi}_{\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2\xi,\xi}$

• $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & -\sqrt{-3\lambda^2-1} \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & -\lambda^2 \\ -\sqrt{-3\lambda^2-1} & \lambda^2+1 & -\lambda^2 & \lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & -\lambda^2-1 \end{pmatrix}$

- $\mathrm{F}^{\alpha\xi}_{\xi,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha\xi,\alpha\xi,\xi}$

• $F^d_{abc} = \begin{pmatrix} -3\lambda^2-1 & -\sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} & \sqrt{-3\lambda^2-1} \\ -\sqrt{-3\lambda^2-1} & \lambda^2+1 & -\lambda^2 & -\lambda^2 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2 & \lambda^2+1 \\ \sqrt{-3\lambda^2-1} & -\lambda^2 & \lambda^2+1 & \lambda^2 \end{pmatrix}$

- $\mathrm{F}^{\xi}_{\xi,\xi,\xi}$

• $F^d_{abc} = \begin{pmatrix} -\lambda^2 & -\lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) \\ \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & -\lambda^2 \\ \frac{1}{2}\left(\lambda^2-i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & \lambda^2 \end{pmatrix}$

- $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha^2\xi}$

• $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & -\lambda^2 \\ -\lambda^2 & \lambda^2 & \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) & \lambda^2 \end{pmatrix}$

– $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha\xi,\alpha^2\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & -\lambda^2 & \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\alpha^2\xi,\xi,\alpha^2\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & \lambda^2 & \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \\ \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \\ \lambda^2 & -\lambda^2 & \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\alpha\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & -\lambda^2 & -\lambda^2 \\ -\lambda^2 & \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) \\ -\lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \\ \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & \lambda^2 & \lambda^2 \\ \lambda^2 & \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) \end{pmatrix}$

  – $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & \lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\alpha\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \\ -\lambda^2 & \lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & -\lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & \lambda^2 & -\lambda^2 \end{pmatrix}$

– $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & \lambda^2 & -\lambda^2 \\ \lambda^2 & \lambda^2 & \frac{1}{2}\left(\lambda^2-i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha\xi,\alpha\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \\ \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \\ -\lambda^2 & \lambda^2 & \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\alpha\xi,\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \lambda^2 & \frac{1}{2}\left(\lambda^2-i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(\lambda^2-i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & \lambda^2 & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha\xi}_{\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \\ -\lambda^2 & \lambda^2 & \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & -\lambda^2 & \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(-\lambda^2-i\sqrt{1-3\lambda^2}\right) & \lambda^2 & -\lambda^2 \\ \lambda^2 & \lambda^2 & \frac{1}{2}\left(\lambda^2+i\sqrt{1-3\lambda^2}\right) \end{pmatrix}$

  – $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & \lambda^2 & \lambda^2 \\ -\lambda^2 & -\lambda^2 & \frac{1}{2}\left(\lambda^2-i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & \lambda^2 \end{pmatrix}$

  – $\mathrm{F}^{\xi}_{\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} -\lambda^2 & -\lambda^2 & \frac{1}{2}\left(\lambda^2-i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & \lambda^2 \\ \frac{1}{2}\left(i\sqrt{1-3\lambda^2}-\lambda^2\right) & \lambda^2 & \lambda^2 \end{pmatrix}$

- $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \\ \lambda^2 & \lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) \\ -\lambda^2 & \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \end{pmatrix}$

  - $\mathrm{F}^{\alpha\xi}_{\xi,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \\ \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 & \lambda^2 \\ -\lambda^2 & \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) \end{pmatrix}$

  - $\mathrm{F}^{\alpha\xi}_{\xi,\alpha\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & \lambda^2 \\ \lambda^2 & \lambda^2 & \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & -\lambda^2 \end{pmatrix}$

  - $\mathrm{F}^{\alpha\xi}_{\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & \lambda^2 \\ \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & \lambda^2 \\ \lambda^2 & -\lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) \end{pmatrix}$

  - $\mathrm{F}^{\xi}_{\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & \lambda^2 \\ \lambda^2 & -\lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) & \lambda^2 \end{pmatrix}$

  - $\mathrm{F}^{\alpha^2\xi}_{\xi,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha\xi,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha^2\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) \\ \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & -\lambda^2 \end{pmatrix}$

  - $\mathrm{F}^{\xi}_{\xi,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha\xi,\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) & \lambda^2 \\ \frac{1}{2}\left(\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 & -\lambda^2 \\ \lambda^2 & \lambda^2 & \frac{1}{2}\left(i\sqrt{1-3\lambda^2} - \lambda^2\right) \end{pmatrix}$

  - $\mathrm{F}^{\alpha^2\xi}_{\xi,\xi,\xi}$, $\mathrm{F}^{\xi}_{\xi,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha\xi}$

- $F^d_{abc} = \begin{pmatrix} \lambda^2 & \lambda^2 & \frac{1}{2}\left(\lambda^2 + i\sqrt{1-3\lambda^2}\right) \\ \lambda^2 & \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & -\lambda^2 \\ \frac{1}{2}\left(-\lambda^2 - i\sqrt{1-3\lambda^2}\right) & \lambda^2 & -\lambda^2 \end{pmatrix}$

  - $\mathrm{F}^{\alpha\xi}_{\xi,\xi,\xi}$, $\mathrm{F}^{\xi}_{\xi,\alpha\xi,\xi}$

- $F^d_{abc} = \begin{pmatrix} -1 \end{pmatrix}$

  - $\mathrm{F}^{\alpha^2\xi}_{\alpha,\xi,\alpha^2}$, $\mathrm{F}^{\xi}_{\alpha,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha\xi,\alpha}$, $\mathrm{F}^{\xi}_{\alpha,\alpha\xi,\alpha^2}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha^2\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha\xi,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha^2,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2,\alpha^2\xi,\alpha}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha^2\xi,\alpha^2}$, $\mathrm{F}^{\xi}_{\alpha^2,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha^2,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\xi,\alpha,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha,\xi}$, $\mathrm{F}^{\alpha}_{\xi,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{\xi,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\xi,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2}_{\xi,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha^2}_{\xi,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2}_{\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha,\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha^2,\xi}$, $\mathrm{F}^{\alpha}_{\alpha\xi,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha\xi,\xi,\alpha}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\xi,\alpha^2}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha\xi,\alpha}$, $\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha}_{\alpha\xi,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2\xi,\alpha^2}$, $\mathrm{F}^{\alpha}_{\alpha\xi,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha}_{\alpha\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha}_{\alpha\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha}_{\alpha^2\xi,\alpha,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha^2\xi,\alpha,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha}_{\alpha^2\xi,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\xi,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\xi,\alpha^2}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha\xi,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha\xi,\alpha^2}$, $\mathrm{F}^{\alpha}_{\alpha^2\xi,\alpha\xi,\xi}$, $\mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha^2}$, $\mathrm{F}^{\alpha}_{\alpha^2\xi,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha}_{\alpha^2\xi,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha}_{\alpha^2\xi,\alpha^2\xi,\alpha^2\xi}$

- $F^d_{abc} = \begin{pmatrix} 1 \end{pmatrix}$

  - $\mathrm{F}^{1}_{1,1,1}$, $\mathrm{F}^{\alpha}_{1,1,\alpha}$, $\mathrm{F}^{\alpha^2}_{1,1,\alpha^2}$, $\mathrm{F}^{\xi}_{1,1,\xi}$, $\mathrm{F}^{\alpha\xi}_{1,1,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,1,\alpha^2\xi}$, $\mathrm{F}^{\alpha}_{1,\alpha,1}$, $\mathrm{F}^{\alpha^2}_{1,\alpha,\alpha}$, $\mathrm{F}^{1}_{1,\alpha,\alpha^2}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha,\alpha\xi}$, $\mathrm{F}^{\xi}_{1,\alpha,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2}_{1,\alpha^2,1}$, $\mathrm{F}^{1}_{1,\alpha^2,\alpha}$, $\mathrm{F}^{\alpha}_{1,\alpha^2,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha^2,\xi}$, $\mathrm{F}^{\xi}_{1,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{1,\xi,1}$, $\mathrm{F}^{\alpha^2\xi}_{1,\xi,\alpha}$, $\mathrm{F}^{\alpha\xi}_{1,\xi,\alpha^2}$, $\mathrm{F}^{1}_{1,\xi,\xi}$, $\mathrm{F}^{\xi}_{1,\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\xi,\xi}$, $\mathrm{F}^{\alpha^2}_{1,\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{1,\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\xi,\alpha\xi}$, $\mathrm{F}^{\alpha}_{1,\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{1,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha\xi,1}$, $\mathrm{F}^{\xi}_{1,\alpha\xi,\alpha}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha\xi,\alpha^2}$, $\mathrm{F}^{\alpha}_{1,\alpha\xi,\xi}$, $\mathrm{F}^{\xi}_{1,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha\xi,\xi}$, $\mathrm{F}^{1}_{1,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{1,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{1,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{1,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha^2\xi,1}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha^2\xi,\alpha}$, $\mathrm{F}^{\xi}_{1,\alpha^2\xi,\alpha^2}$, $\mathrm{F}^{\alpha^2}_{1,\alpha^2\xi,\xi}$, $\mathrm{F}^{\xi}_{1,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha}_{1,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{1,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{1}_{1,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{1,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{1,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{1,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha}_{\alpha,1,1}$, $\mathrm{F}^{\alpha^2}_{\alpha,1,\alpha}$, $\mathrm{F}^{1}_{\alpha,1,\alpha^2}$, $\mathrm{F}^{\alpha\xi}_{\alpha,1,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,1,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha,1,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha,\alpha,1}$, $\mathrm{F}^{1}_{\alpha,\alpha,\alpha}$, $\mathrm{F}^{\alpha}_{\alpha,\alpha,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha,\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha,\alpha^2\xi}$, $\mathrm{F}^{1}_{\alpha,\alpha^2,1}$, $\mathrm{F}^{\alpha}_{\alpha,\alpha^2,\alpha}$, $\mathrm{F}^{\alpha^2}_{\alpha,\alpha^2,\alpha^2}$, $\mathrm{F}^{\xi}_{\alpha,\alpha^2,\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\xi,1}$, $\mathrm{F}^{\xi}_{\alpha,\xi,\alpha}$, $\mathrm{F}^{\alpha}_{\alpha,\xi,\xi}$, $\mathrm{F}^{\xi}_{\alpha,\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\xi,\xi}$, $\mathrm{F}^{1}_{\alpha,\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha,\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha\xi,1}$, $\mathrm{F}^{\alpha^2}_{\alpha,\alpha\xi,\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha\xi,\xi}$, $\mathrm{F}^{\alpha}_{\alpha,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha\xi,\alpha\xi}$, $\mathrm{F}^{1}_{\alpha,\alpha\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha^2\xi,1}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha^2\xi,\alpha^2}$, $\mathrm{F}^{1}_{\alpha,\alpha^2\xi,\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha^2\xi,\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha^2\xi,\alpha\xi}$, $\mathrm{F}^{\alpha}_{\alpha,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\xi}_{\alpha,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha,\alpha^2\xi,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2}_{\alpha^2,1,1}$, $\mathrm{F}^{1}_{\alpha^2,1,\alpha}$, $\mathrm{F}^{\alpha}_{\alpha^2,1,\alpha^2}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,1,\xi}$, $\mathrm{F}^{\xi}_{\alpha^2,1,\alpha\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,1,\alpha^2\xi}$, $\mathrm{F}^{1}_{\alpha^2,\alpha,1}$, $\mathrm{F}^{\alpha}_{\alpha^2,\alpha,\alpha}$, $\mathrm{F}^{\alpha^2}_{\alpha^2,\alpha,\alpha^2}$, $\mathrm{F}^{\xi}_{\alpha^2,\alpha,\xi}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha,\alpha\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha,\alpha^2\xi}$, $\mathrm{F}^{\alpha}_{\alpha^2,\alpha^2,1}$, $\mathrm{F}^{\alpha^2}_{\alpha^2,\alpha^2,\alpha}$, $\mathrm{F}^{1}_{\alpha^2,\alpha^2,\alpha^2}$, $\mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha^2,\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha^2,\alpha\xi}$, $\mathrm{F}^{\xi}_{\alpha^2,\alpha^2,\alpha^2\xi}$, $\mathrm{F}^{\alpha^2\xi}_{\alpha^2,\xi,1}$, $\mathrm{F}^{\xi}_{\alpha^2,\xi,\alpha^2}$, $\mathrm{F}^{\alpha^2}_{\alpha^2,\xi,\xi}$,

$\mathrm{F}^{\xi}_{\alpha^2,\xi,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\xi,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\xi,\xi}, \mathrm{F}^{\alpha}_{\alpha^2,\xi,\alpha\xi}, \mathrm{F}^{\xi}_{\alpha^2,\xi,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\xi,\alpha\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\xi,\alpha\xi}, \mathrm{F}^{1}_{\alpha^2,\xi,\alpha^2\xi},$

$\mathrm{F}^{\xi}_{\alpha^2,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\xi,\alpha^2\xi}, \mathrm{F}^{\xi}_{\alpha^2,\alpha\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha\xi,\alpha}, \mathrm{F}^{1}_{\alpha^2,\alpha\xi,\xi}, \mathrm{F}^{\xi}_{\alpha^2,\alpha\xi,\xi},$

$\mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha\xi,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha\xi,\xi}, \mathrm{F}^{\alpha^2}_{\alpha^2,\alpha\xi,\alpha\xi}, \mathrm{F}^{\xi}_{\alpha^2,\alpha\xi,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha\xi,\alpha\xi}, \mathrm{F}^{\alpha}_{\alpha^2,\alpha\xi,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha^2\xi,1},$

$\mathrm{F}^{\alpha}_{\alpha^2,\alpha^2\xi,\xi}, \mathrm{F}^{\xi}_{\alpha^2,\alpha^2\xi,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha^2\xi,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha^2\xi,\xi}, \mathrm{F}^{1}_{\alpha^2,\alpha^2\xi,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2,\alpha^2\xi,\alpha\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2,\alpha^2\xi,\alpha\xi},$

$\mathrm{F}^{\alpha^2}_{\alpha^2,\alpha^2\xi,\alpha^2\xi}, \mathrm{F}^{\xi}_{\xi,1,1}, \mathrm{F}^{\alpha^2\xi}_{\xi,1,\alpha}, \mathrm{F}^{\alpha\xi}_{\xi,1,\alpha^2}, \mathrm{F}^{1}_{\xi,1,\xi}, \mathrm{F}^{\xi}_{\xi,1,\xi}, \mathrm{F}^{\alpha\xi}_{\xi,1,\xi}, \mathrm{F}^{\alpha^2\xi}_{\xi,1,\xi}, \mathrm{F}^{\alpha^2}_{\xi,1,\alpha\xi},$

$\mathrm{F}^{\xi}_{\xi,1,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\xi,1,\alpha\xi}, \mathrm{F}^{\alpha^2\xi}_{\xi,1,\alpha\xi}, \mathrm{F}^{\alpha}_{\xi,1,\alpha^2\xi}, \mathrm{F}^{\xi}_{\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha,1},$

$\mathrm{F}^{\alpha\xi}_{\xi,\alpha,\alpha}, \mathrm{F}^{\xi}_{\xi,\alpha,\alpha^2}, \mathrm{F}^{\alpha^2}_{\xi,\alpha,\xi}, \mathrm{F}^{\xi}_{\xi,\alpha,\xi}, \mathrm{F}^{\xi}_{\xi,\alpha,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha,\alpha\xi}, \mathrm{F}^{1}_{\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\xi}_{\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha,\alpha^2\xi},$

$\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha^2,1}, \mathrm{F}^{\xi}_{\xi,\alpha^2,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2,\alpha^2}, \mathrm{F}^{\alpha}_{\xi,\alpha^2,\xi}, \mathrm{F}^{\xi}_{\xi,\alpha^2,\xi}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha^2,\xi}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2,\xi},$

$\mathrm{F}^{1}_{\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{\xi}_{\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{\xi}_{\xi,\alpha^2,\alpha^2\xi}, \mathrm{F}^{1}_{\xi,\xi,1}, \mathrm{F}^{\xi}_{\xi,\xi,1}, \mathrm{F}^{\alpha\xi}_{\xi,\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\xi,\xi,1}, \mathrm{F}^{\alpha}_{\xi,\xi,\alpha},$

$\mathrm{F}^{\xi}_{\xi,\xi,\alpha}, \mathrm{F}^{\alpha\xi}_{\xi,\xi,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\xi,\xi,\alpha}, \mathrm{F}^{\alpha^2}_{\xi,\xi,\alpha^2}, \mathrm{F}^{\xi}_{\xi,\xi,\alpha^2}, \mathrm{F}^{\alpha\xi}_{\xi,\xi,\alpha^2}, \mathrm{F}^{\alpha^2\xi}_{\xi,\xi,\alpha^2}, \mathrm{F}^{1}_{\xi,\xi,\xi}, \mathrm{F}^{\alpha}_{\xi,\xi,\xi},$

$\mathrm{F}^{\alpha^2}_{\xi,\xi,\xi}, \mathrm{F}^{1}_{\xi,\xi,\alpha\xi}, \mathrm{F}^{\alpha}_{\xi,\xi,\alpha\xi}, \mathrm{F}^{\alpha^2}_{\xi,\xi,\alpha\xi}, \mathrm{F}^{1}_{\xi,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha}_{\xi,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha^2}_{\xi,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha^2}_{\xi,\alpha\xi,1},$

$\mathrm{F}^{\xi}_{\xi,\alpha\xi,1}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha\xi,1}, \mathrm{F}^{1}_{\xi,\alpha\xi,\alpha}, \mathrm{F}^{\xi}_{\xi,\alpha\xi,\alpha}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha\xi,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha\xi,\alpha}, \mathrm{F}^{\alpha}_{\xi,\alpha\xi,\alpha^2},$

$\mathrm{F}^{\xi}_{\xi,\alpha\xi,\alpha^2}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha\xi,\alpha^2}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha\xi,\alpha^2}, \mathrm{F}^{1}_{\xi,\alpha\xi,\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha\xi,\xi}, \mathrm{F}^{1}_{\xi,\alpha\xi,\alpha\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha\xi,\alpha\xi}, \mathrm{F}^{\alpha^2}_{\xi,\alpha\xi,\alpha\xi},$

$\mathrm{F}^{1}_{\xi,\alpha\xi,\alpha^2\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha\xi,\alpha^2\xi}, \mathrm{F}^{\alpha^2}_{\xi,\alpha\xi,\alpha^2\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha^2\xi,1}, \mathrm{F}^{\xi}_{\xi,\alpha^2\xi,1}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha^2\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2\xi,1},$

$\mathrm{F}^{\alpha^2}_{\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{\xi}_{\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{1}_{\xi,\alpha^2\xi,\alpha^2}, \mathrm{F}^{\xi}_{\xi,\alpha^2\xi,\alpha^2}, \mathrm{F}^{\alpha\xi}_{\xi,\alpha^2\xi,\alpha^2},$

$\mathrm{F}^{\alpha^2\xi}_{\xi,\alpha^2\xi,\alpha^2}, \mathrm{F}^{1}_{\xi,\alpha^2\xi,\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha^2\xi,\xi}, \mathrm{F}^{1}_{\xi,\alpha^2\xi,\alpha\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha^2\xi,\alpha\xi}, \mathrm{F}^{1}_{\xi,\alpha^2\xi,\alpha^2\xi}, \mathrm{F}^{\alpha}_{\xi,\alpha^2\xi,\alpha^2\xi},$

$\mathrm{F}^{\alpha\xi}_{\alpha\xi,1,1}, \mathrm{F}^{\xi}_{\alpha\xi,1,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,1,\alpha^2}, \mathrm{F}^{\alpha}_{\alpha\xi,1,\xi}, \mathrm{F}^{\xi}_{\alpha\xi,1,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,1,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,1,\xi}, \mathrm{F}^{1}_{\alpha\xi,1,\alpha\xi},$

$\mathrm{F}^{\xi}_{\alpha\xi,1,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,1,\alpha\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,1,\alpha\xi}, \mathrm{F}^{\alpha^2}_{\alpha\xi,1,\alpha^2\xi}, \mathrm{F}^{\xi}_{\alpha\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,1,\alpha^2\xi},$

$\mathrm{F}^{\xi}_{\alpha\xi,\alpha,1}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha,\alpha}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha,\alpha^2}, \mathrm{F}^{1}_{\alpha\xi,\alpha,\xi}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha,\xi}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha,\alpha\xi}, \mathrm{F}^{\alpha}_{\alpha\xi,\alpha,\alpha^2\xi},$

$\mathrm{F}^{\xi}_{\alpha\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2,1}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2,\alpha}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2,\alpha^2}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2,\xi},$

$\mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2,\xi}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{1}_{\alpha\xi,\alpha^2,\alpha^2\xi}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2,\alpha^2\xi},$

$\mathrm{F}^{\alpha}_{\alpha\xi,\xi,1}, \mathrm{F}^{\xi}_{\alpha\xi,\xi,1}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\xi,1}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\xi,\alpha}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\xi,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\xi,\alpha}, \mathrm{F}^{1}_{\alpha\xi,\xi,\alpha^2},$

$\mathrm{F}^{\xi}_{\alpha\xi,\xi,\alpha^2}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\xi,\alpha^2}, \mathrm{F}^{1}_{\alpha\xi,\xi,\xi}, \mathrm{F}^{\alpha}_{\alpha\xi,\xi,\xi}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\xi,\xi}, \mathrm{F}^{1}_{\alpha\xi,\xi,\alpha\xi}, \mathrm{F}^{\alpha}_{\alpha\xi,\xi,\alpha\xi}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\xi,\alpha\xi},$

$\mathrm{F}^{1}_{\alpha\xi,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha}_{\alpha\xi,\xi,\alpha^2\xi}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\xi,\alpha^2\xi}, \mathrm{F}^{1}_{\alpha\xi,\alpha\xi,1}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha\xi,1}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha\xi,1},$

$\mathrm{F}^{\alpha}_{\alpha\xi,\alpha\xi,\alpha}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha\xi,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha\xi,\alpha}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha\xi,\alpha^2}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha\xi,\alpha^2}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha\xi,\alpha^2}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha\xi,\alpha^2},$

$\mathrm{F}^{1}_{\alpha\xi,\alpha\xi,\xi}, \mathrm{F}^{\alpha}_{\alpha\xi,\alpha\xi,\xi}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha\xi,\xi}, \mathrm{F}^{1}_{\alpha\xi,\alpha\xi,\alpha\xi}, \mathrm{F}^{\alpha}_{\alpha\xi,\alpha\xi,\alpha\xi}, \mathrm{F}^{1}_{\alpha\xi,\alpha\xi,\alpha^2\xi}, \mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha\xi,\alpha^2\xi},$

$\mathrm{F}^{\alpha^2}_{\alpha\xi,\alpha^2\xi,1}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2\xi,1}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2\xi,1}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2\xi,1}, \mathrm{F}^{1}_{\alpha\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{\alpha\xi}_{\alpha\xi,\alpha^2\xi,\alpha},$

$\mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2\xi,\alpha}, \mathrm{F}^{\alpha}_{\alpha\xi,\alpha^2\xi,\alpha^2}, \mathrm{F}^{\xi}_{\alpha\xi,\alpha^2\xi,\alpha^2}, \mathrm{F}^{\alpha^2\xi}_{\alpha\xi,\alpha^2\xi,\alpha^2}, \mathrm{F}^{1}_{\alpha\xi,\alpha^2\xi,\xi}, \mathrm{F}^{1}_{\alpha\xi,\alpha^2\xi,\alpha\xi}, \mathrm{F}^{1}_{\alpha\xi,\alpha^2\xi,\alpha^2\xi},$

$\mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,1,1}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,1,\alpha}, \mathrm{F}^{\xi}_{\alpha^2\xi,1,\alpha^2}, \mathrm{F}^{\alpha^2}_{\alpha^2\xi,1,\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,1,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,1,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,1,\xi}, \mathrm{F}^{\alpha}_{\alpha^2\xi,1,\alpha\xi},$

$\mathrm{F}^{\xi}_{\alpha^2\xi,1,\alpha\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,1,\alpha\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,1,\alpha\xi}, \mathrm{F}^{1}_{\alpha^2\xi,1,\alpha^2\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,1,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,1,\alpha^2\xi},$

$\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha,1}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha,\alpha}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha,\alpha^2}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha,\xi}, \mathrm{F}^{1}_{\alpha^2\xi,\alpha,\alpha\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha,\alpha\xi},$

$\mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha,\alpha\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha,\alpha^2\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2,1}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2,\alpha}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2,\alpha^2},$

$\mathrm{F}^{1}_{\alpha^2\xi,\alpha^2,\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2,\xi}, \mathrm{F}^{\alpha\xi}_{\alpha^2\xi,\alpha^2,\xi}, \mathrm{F}^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2,\xi}, \mathrm{F}^{\alpha^2}_{\alpha^2\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2,\alpha\xi}, \mathrm{F}^{\xi}_{\alpha^2\xi,\alpha^2,\alpha^2\xi},$

$F^{\alpha\xi}_{\alpha^2\xi,\alpha^2,\alpha^2\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\xi,1}$, $F^{\xi}_{\alpha^2\xi,\xi,1}$, $F^{\alpha\xi}_{\alpha^2\xi,\xi,1}$, $F^{\alpha^2\xi}_{\alpha^2\xi,\xi,1}$, $F^{1}_{\alpha^2\xi,\xi,\alpha}$, $F^{\alpha^2\xi}_{\alpha^2\xi,\xi,\alpha}$, $F^{\alpha}_{\alpha^2\xi,\xi,\alpha^2}$, $F^{\xi}_{\alpha^2\xi,\xi,\alpha^2}$, $F^{1}_{\alpha^2\xi,\xi,\xi}$, $F^{\alpha}_{\alpha^2\xi,\xi,\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\xi,\xi}$, $F^{1}_{\alpha^2\xi,\xi,\alpha\xi}$, $F^{\alpha}_{\alpha^2\xi,\xi,\alpha\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\xi,\alpha\xi}$, $F^{1}_{\alpha^2\xi,\xi,\alpha^2\xi}$, $F^{\alpha}_{\alpha^2\xi,\xi,\alpha^2\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\xi,\alpha^2\xi}$, $F^{\alpha}_{\alpha^2\xi,\alpha\xi,1}$, $F^{\xi}_{\alpha^2\xi,\alpha\xi,1}$, $F^{\alpha\xi}_{\alpha^2\xi,\alpha\xi,1}$, $F^{\alpha^2\xi}_{\alpha^2\xi,\alpha\xi,1}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha\xi,\alpha}$, $F^{\alpha^2\xi}_{\alpha^2\xi,\alpha\xi,\alpha}$, $F^{1}_{\alpha^2\xi,\alpha\xi,\alpha^2}$, $F^{\xi}_{\alpha^2\xi,\alpha\xi,\alpha^2}$, $F^{1}_{\alpha^2\xi,\alpha\xi,\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha\xi,\xi}$, $F^{1}_{\alpha^2\xi,\alpha\xi,\alpha\xi}$, $F^{\alpha}_{\alpha^2\xi,\alpha\xi,\alpha\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha\xi,\alpha\xi}$, $F^{1}_{\alpha^2\xi,\alpha\xi,\alpha^2\xi}$, $F^{\alpha}_{\alpha^2\xi,\alpha\xi,\alpha^2\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha\xi,\alpha^2\xi}$, $F^{1}_{\alpha^2\xi,\alpha^2\xi,1}$, $F^{\xi}_{\alpha^2\xi,\alpha^2\xi,1}$, $F^{\alpha\xi}_{\alpha^2\xi,\alpha^2\xi,1}$, $F^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2\xi,1}$, $F^{\alpha}_{\alpha^2\xi,\alpha^2\xi,\alpha}$, $F^{\alpha^2\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha^2\xi,\alpha^2}$, $F^{\xi}_{\alpha^2\xi,\alpha^2\xi,\alpha^2}$, $F^{1}_{\alpha^2\xi,\alpha^2\xi,\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha^2\xi,\xi}$, $F^{1}_{\alpha^2\xi,\alpha^2\xi,\alpha\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha^2\xi,\alpha\xi}$, $F^{1}_{\alpha^2\xi,\alpha^2\xi,\alpha^2\xi}$, $F^{\alpha^2}_{\alpha^2\xi,\alpha^2\xi,\alpha^2\xi}$

3 Pivotal Structures

There is 1 pivotal structures.

- $\epsilon_1 = 1$, $\epsilon_\alpha = 1$, $\epsilon_{\alpha^2} = 1$, $\epsilon_\xi = 1$, $\epsilon_{\alpha\xi} = 1$, and $\epsilon_{\alpha^2\xi} = 1$ which is spherical with quantum dimensions $q_1 = 1$, $q_\alpha = 1$, $q_{\alpha^2} = 1$, $q_\xi = \frac{2}{\sqrt{13}-3}$, $q_{\alpha\xi} = \frac{2}{\sqrt{13}-3}$, and $q_{\alpha^2\xi} = \frac{2}{\sqrt{13}-3}$.