* Rank 0 tensor. * Rank 1 tensor. * Rank 2 tensor (s). * Rank 2 tensor (a). * Rank 3 tensor (s).

$$
\begin{bmatrix}
T_{xxx} & T_{xxy} & 0 \\
-T_{xxx} & -T_{xxy} & 0 \\
0 & 0 & 0 \\
0 & 0 & 0 \\
0 & 0 & 0 \\
T_{xxy} & -T_{xxx} & 0
\end{bmatrix}
$$

$T_{xxx} = T_{f2}^{(1)}$

$T_{xxy} = T_{f1}^{(1)}$

* Rank 3 tensor (a). * Rank 4 tensor (sss).

$$
\begin{bmatrix}
0 & 0 & 0 & T_{xxyz} & T_{xxzx} & 0 \\
0 & 0 & 0 & -T_{xxyz} & -T_{xxzx} & 0 \\
0 & 0 & 0 & 0 & 0 & 0 \\
T_{xxyz} & -T_{xxyz} & 0 & 0 & 0 & -T_{xxzx} \\
T_{xxzx} & -T_{xxzx} & 0 & 0 & 0 & T_{xxyz} \\
0 & 0 & 0 & -T_{xxzx} & T_{xxyz} & 0
\end{bmatrix}
$$

$T_{xxyz} = T_{gb}^{(1)}$

$T_{xxzx} = T_{ga}^{(1)}$

* Rank 4 tensor (ssa).

$$
\begin{bmatrix}
0 & 0 & 0 & T_{xxyz} & T_{xxzx} & 0 \\
0 & 0 & 0 & -T_{xxyz} & -T_{xxzx} & 0 \\
0 & 0 & 0 & 0 & 0 & 0 \\
-T_{xxyz} & T_{xxyz} & 0 & 0 & 0 & T_{xxzx} \\
-T_{xxzx} & T_{xxzx} & 0 & 0 & 0 & -T_{xxyz} \\
0 & 0 & 0 & -T_{xxzx} & T_{xxyz} & 0
\end{bmatrix}
$$

$T_{xxyz} = 2M_{f2}^{(1)}$

$T_{xxzx} = -2M_{f1}^{(1)}$

* Rank 4 tensor (aas). * Rank 4 tensor (aaa). * Rank 4 tensor (sa).

$$
\begin{bmatrix}
T_{xxyz} & T_{xxzx} & 0 \\
-T_{xxyz} & -T_{xxzx} & 0 \\
0 & 0 & 0 \\
0 & 0 & 0 \\
0 & 0 & 0 \\
T_{xxzx} & -T_{xxyz} & 0
\end{bmatrix}
$$

$T_{xxyz} = M_{f2}^{(2)}$

$T_{xxzx} = M_{f1}^{(2)}$

* Rank 4 tensor (as).

$$
\begin{bmatrix}
T_{yzxx} & -T_{yzxx} & 0 & 0 & 0 & T_{yzxy} \\
T_{yzxy} & -T_{yzxy} & 0 & 0 & 0 & -T_{yzxx} \\
0 & 0 & 0 & 0 & 0 & 0
\end{bmatrix}
$$

$T_{yzxx} = M_{f2}^{(3)}$

$T_{yzxy} = M_{f1}^{(3)}$

* Rank 4 tensor (s).

$$
\begin{bmatrix}
0 & 0 & 0 & T_{xxyz} & T_{xxzx} & 0 & T_{xxzy} & T_{xxxz} & 0 \\
0 & 0 & 0 & -T_{xxyz} & -T_{xxzx} & 0 & -T_{xxzy} & -T_{xxxz} & 0 \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \\
T_{yzxx} & -T_{yzxx} & 0 & 0 & 0 & T_{yzxy} & 0 & 0 & T_{yzxy} \\
-T_{yzxy} & T_{yzxy} & 0 & 0 & 0 & T_{yzxx} & 0 & 0 & T_{yzxx} \\
0 & 0 & 0 & -T_{xxxz} & T_{xxzy} & 0 & -T_{xxzx} & T_{xxyz} & 0
\end{bmatrix}
$$

$$T_{xxyz} = 2M_{f2}^{(1)} + M_{f2}^{(2)} + T_{gb}^{(1)}$$

$$T_{xxzx} = -2M_{f1}^{(1)} + M_{f1}^{(2)} + T_{ga}^{(1)}$$

$$T_{xxzy} = 2M_{f2}^{(1)} - M_{f2}^{(2)} + T_{gb}^{(1)}$$

$$T_{xxxz} = -2M_{f1}^{(1)} - M_{f1}^{(2)} + T_{ga}^{(1)}$$

$$T_{yzxx} = -2M_{f2}^{(1)} + T_{gb}^{(1)}$$

$$T_{yzxy} = -2M_{f1}^{(1)} - T_{ga}^{(1)}$$

* Rank 4 tensor (a).

$$
\begin{bmatrix}
T_{yzxx} & -T_{yzxx} & 0 & 0 & 0 & T_{yzxy} & 0 & 0 & T_{yzxy} \\
T_{yzxy} & -T_{yzxy} & 0 & 0 & 0 & -T_{yzxx} & 0 & 0 & -T_{yzxx} \\
0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0
\end{bmatrix}
$$

$$T_{yzxx} = M_{f2}^{(3)}$$

$$T_{yzxy} = M_{f1}^{(3)}$$

* Rank 4 tensor (t).

$$
\begin{bmatrix}
0 & 0 & T_{xxxz} \\
0 & 0 & T_{yyyz} \\
0 & 0 & 0 \\
-T_{xxxz} & T_{yyyz} & 0 \\
0 & 0 & 0 \\
0 & 0 & -T_{yyyz} \\
0 & 0 & 0 \\
T_{xxxz} & -T_{yyyz} & 0 \\
0 & 0 & -T_{xxxz} \\
-T_{yyyz} & -T_{xxxz} & 0
\end{bmatrix}
$$

$$T_{xxxz} = T_{ga}^{(1)}$$

$$T_{yyyz} = -T_{gb}^{(1)}$$