* Rank 0 tensor.

$$[Q]$$

$$Q = Q_s^{(1)}$$

* Rank 1 tensor. * Rank 2 tensor (s).

$$\begin{bmatrix} Q_{xx} & 0 & 0 \\ 0 & Q_{xx} & 0 \\ 0 & 0 & Q_{xx} \end{bmatrix}$$

$$Q_{xx} = Q_s^{(1)}$$

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

$$\begin{bmatrix} 0 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 0 \\ Q_{yzx} & 0 & 0 \\ 0 & Q_{yzx} & 0 \\ 0 & 0 & Q_{yzx} \end{bmatrix}$$

$$Q_{yzx} = Q_{f3}^{(1)}$$

* Rank 3 tensor (a).

$$\begin{bmatrix} Q_{yzx} & 0 & 0 \\ 0 & Q_{yzx} & 0 \\ 0 & 0 & Q_{yzx} \end{bmatrix}$$

$$Q_{yzx} = G_s^{(1)}$$

* Rank 4 tensor (sss).

$$\begin{bmatrix} Q_{xxxx} & Q_{xxyy} & Q_{xxyy} & 0 & 0 & 0 \\ Q_{xxyy} & Q_{xxxx} & Q_{xxyy} & 0 & 0 & 0 \\ Q_{xxyy} & Q_{xxyy} & Q_{xxxx} & 0 & 0 & 0 \\ 0 & 0 & 0 & Q_{yzyz} & 0 & 0 \\ 0 & 0 & 0 & 0 & Q_{yzyz} & 0 \\ 0 & 0 & 0 & 0 & 0 & Q_{yzyz} \end{bmatrix}$$

$$Q_{xxxx} = 2Q_g^{(1)} + Q_s^{(1)} + 2Q_s^{(2)}$$
$$Q_{xxyy} = -Q_g^{(1)} + Q_s^{(1)}$$
$$Q_{yzyz} = -Q_g^{(1)} + Q_s^{(2)}$$

* Rank 4 tensor (ssa).

$$\begin{bmatrix} 0 & Q_{xxyy} & -Q_{xxyy} & 0 & 0 & 0 \\ -Q_{xxyy} & 0 & Q_{xxyy} & 0 & 0 & 0 \\ Q_{xxyy} & -Q_{xxyy} & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$Q_{xxyy} = 4G_{f3}^{(1)}$$

* Rank 4 tensor (aas).

$$
\begin{bmatrix}
Q_{yzyz} & 0 & 0 \\
0 & Q_{yzyz} & 0 \\
0 & 0 & Q_{yzyz}
\end{bmatrix}
$$

$Q_{yzyz} = Q_s^{(3)}$

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

$$
\begin{bmatrix}
0 & 0 & 0 \\
0 & 0 & 0 \\
0 & 0 & 0 \\
Q_{yzyz} & 0 & 0 \\
0 & Q_{yzyz} & 0 \\
0 & 0 & Q_{yzyz}
\end{bmatrix}
$$

$Q_{yzyz} = G_{f3}^{(2)}$

* Rank 4 tensor (as).

$$
\begin{bmatrix}
0 & 0 & 0 & Q_{yzyz} & 0 & 0 \\
0 & 0 & 0 & 0 & Q_{yzyz} & 0 \\
0 & 0 & 0 & 0 & 0 & Q_{yzyz}
\end{bmatrix}
$$

$Q_{yzyz} = G_{f3}^{(3)}$

* Rank 4 tensor (s).

$$
\begin{bmatrix}
Q_{xxxx} & Q_{xxyy} & Q_{xxzz} & 0 & 0 & 0 & 0 & 0 & 0 \\
Q_{xxzz} & Q_{xxxx} & Q_{xxyy} & 0 & 0 & 0 & 0 & 0 & 0 \\
Q_{xxyy} & Q_{xxzz} & Q_{xxxx} & 0 & 0 & 0 & 0 & 0 & 0 \\
0 & 0 & 0 & Q_{yzyz} & 0 & 0 & Q_{yzzy} & 0 & 0 \\
0 & 0 & 0 & 0 & Q_{yzyz} & 0 & 0 & Q_{yzzy} & 0 \\
0 & 0 & 0 & 0 & 0 & Q_{yzyz} & 0 & 0 & Q_{yzzy}
\end{bmatrix}
$$

$Q_{xxxx} = 2Q_g^{(1)} + Q_s^{(1)} + 2Q_s^{(2)}$

$Q_{xxyy} = 4G_{f3}^{(1)} - Q_g^{(1)} + Q_s^{(1)}$

$Q_{xxzz} = -4G_{f3}^{(1)} - Q_g^{(1)} + Q_s^{(1)}$

$Q_{yzyz} = G_{f3}^{(2)} - Q_g^{(1)} + Q_s^{(2)}$

$Q_{yzzy} = -G_{f3}^{(2)} - Q_g^{(1)} + Q_s^{(2)}$

* Rank 4 tensor (a).

$$
\begin{bmatrix}
0 & 0 & 0 & Q_{yzyz} & 0 & 0 & Q_{yzzy} & 0 & 0 \\
0 & 0 & 0 & 0 & Q_{yzyz} & 0 & 0 & Q_{yzzy} & 0 \\
0 & 0 & 0 & 0 & 0 & Q_{yzyz} & 0 & 0 & Q_{yzzy}
\end{bmatrix}
$$

$Q_{yzyz} = G_{f3}^{(3)} + Q_s^{(3)}$

$Q_{yzzy} = G_{f3}^{(3)} - Q_s^{(3)}$

* Rank 4 tensor (t).

$$
\begin{bmatrix}
Q_{xxxx} & 0 & 0 \\
0 & Q_{xxxx} & 0 \\
0 & 0 & Q_{xxxx} \\
0 & 0 & Q_{yyzz} \\
Q_{yyzz} & 0 & 0 \\
0 & Q_{yyzz} & 0 \\
0 & Q_{yyzz} & 0 \\
0 & 0 & Q_{yyzz} \\
Q_{yyzz} & 0 & 0 \\
0 & 0 & 0
\end{bmatrix}
$$

$$Q_{xxxx} = 2Q_g^{(1)} + 3Q_s^{(1)}$$
$$Q_{yyzz} = -Q_g^{(1)} + Q_s^{(1)}$$