

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

$$\begin{bmatrix} 0 & M_{xy} & 0 \\ M_{xy} & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$$M_{xy} = M_{dxy}^{(1)}$$

* Rank 2 tensor (a). * Rank 3 tensor (s). * Rank 3 tensor (a). * Rank 4 tensor (sss).

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & M_{xxy} \\ 0 & 0 & 0 & 0 & 0 & M_{xxy} \\ 0 & 0 & 0 & 0 & 0 & M_{zzy} \\ 0 & 0 & 0 & 0 & M_{yzz} & 0 \\ 0 & 0 & 0 & M_{yzz} & 0 & 0 \\ M_{xxy} & M_{xxy} & M_{zzy} & 0 & 0 & 0 \end{bmatrix}$$

$$M_{xxy} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} - M_{gbz}^{(1)}$$

$$M_{zzy} = M_{dxy}^{(1)} + 2M_{gbz}^{(1)}$$

$$M_{yzz} = M_{dxy}^{(2)} + 2M_{gbz}^{(1)}$$

* Rank 4 tensor (ssa).

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & M_{xxy} \\ 0 & 0 & 0 & 0 & 0 & M_{xxy} \\ 0 & 0 & 0 & 0 & 0 & M_{zzy} \\ 0 & 0 & 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 \\ -M_{xxy} & -M_{xxy} & -M_{zzy} & 0 & 0 & 0 \end{bmatrix}$$

$$M_{xxy} = M_{dxy}^{(3)} + 2T_{fbz}^{(1)}$$

$$M_{zzy} = M_{dxy}^{(3)} - 4T_{fbz}^{(1)}$$

* Rank 4 tensor (aas).

$$\begin{bmatrix} 0 & M_{yzz} & 0 \\ M_{yzz} & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$$M_{yzz} = 2M_{dxy}^{(4)}$$

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

$$\begin{bmatrix} 0 & 0 & M_{xxy} \\ 0 & 0 & -M_{xxy} \\ 0 & 0 & 0 \\ 0 & M_{yzz} & 0 \\ -M_{yzz} & 0 & 0 \\ 0 & 0 & 0 \end{bmatrix}$$

$$M_{xxy} = -2M_{dxy}^{(5)} + T_{fbz}^{(2)}$$

$$M_{yzz} = -M_{dxy}^{(5)} - T_{fbz}^{(2)}$$

* Rank 4 tensor (as).

$$\begin{bmatrix} 0 & 0 & 0 & 0 & M_{yzz} & 0 \\ 0 & 0 & 0 & -M_{yzz} & 0 & 0 \\ M_{xyx} & -M_{xyx} & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$M_{yzzx} = M_{dxy}^{(6)} + T_{fbz}^{(3)}$$

$$M_{xyxx} = -2M_{dxy}^{(6)} + T_{fbz}^{(3)}$$

* Rank 4 tensor (s).

$$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & M_{xxyy} & 0 & 0 & M_{xyyx} \\ 0 & 0 & 0 & 0 & 0 & M_{xxyx} & 0 & 0 & M_{xxxy} \\ 0 & 0 & 0 & 0 & 0 & M_{zzxy} & 0 & 0 & M_{zzxy} \\ 0 & 0 & 0 & 0 & M_{yzzx} & 0 & 0 & M_{yzzx} & 0 \\ 0 & 0 & 0 & M_{yzzz} & 0 & 0 & M_{yzzz} & 0 & 0 \\ M_{xyyx} & M_{xyyx} & M_{xyzz} & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$M_{xxyy} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} + M_{dxy}^{(3)} - 2M_{dxy}^{(5)} - M_{gbz}^{(1)} + 2T_{fbz}^{(1)} + T_{fbz}^{(2)}$$

$$M_{xxyx} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} + M_{dxy}^{(3)} + 2M_{dxy}^{(5)} - M_{gbz}^{(1)} + 2T_{fbz}^{(1)} - T_{fbz}^{(2)}$$

$$M_{zzxy} = M_{dxy}^{(1)} + M_{dxy}^{(3)} + 2M_{gbz}^{(1)} - 4T_{fbz}^{(1)}$$

$$M_{yzzx} = M_{dxy}^{(2)} - M_{dxy}^{(5)} + 2M_{gbz}^{(1)} - T_{fbz}^{(2)}$$

$$M_{yzzz} = M_{dxy}^{(2)} + M_{dxy}^{(5)} + 2M_{gbz}^{(1)} + T_{fbz}^{(2)}$$

$$M_{xyyx} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} - M_{dxy}^{(3)} - M_{gbz}^{(1)} - 2T_{fbz}^{(1)}$$

$$M_{xyzz} = M_{dxy}^{(1)} - M_{dxy}^{(3)} + 2M_{gbz}^{(1)} + 4T_{fbz}^{(1)}$$

* Rank 4 tensor (a).

$$\begin{bmatrix} 0 & 0 & 0 & 0 & M_{yzzx} & 0 & 0 & M_{yzzz} & 0 \\ 0 & 0 & 0 & -M_{yzzz} & 0 & 0 & -M_{yzzx} & 0 & 0 \\ M_{xyyx} & -M_{xyyx} & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$$

$$M_{yzzx} = 2M_{dxy}^{(4)} + M_{dxy}^{(6)} + T_{fbz}^{(3)}$$

$$M_{yzzz} = -2M_{dxy}^{(4)} + M_{dxy}^{(6)} + T_{fbz}^{(3)}$$

$$M_{xyyx} = -2M_{dxy}^{(6)} + T_{fbz}^{(3)}$$

* Rank 4 tensor (t).

$$\begin{bmatrix} 0 & M_{xxyy} & & & 0 & & & & \\ M_{xxyy} & 0 & & & 0 & & & & \\ 0 & 0 & & & 0 & & & & \\ 0 & 0 & & & 0 & & & & \\ 0 & M_{zzxy} & & & 0 & & & & \\ M_{xxyx} & 0 & & & 0 & & & & \\ M_{yzzx} & 0 & & & 0 & & & & \\ 0 & 0 & & & 0 & & & & \\ 0 & M_{xyyy} & & & 0 & & & & \\ 0 & 0 & -\frac{M_{xxyy}}{2} - \frac{M_{xxyx}}{2} + M_{xyyy} + M_{zzxy} & & & & & & \end{bmatrix}$$

$$M_{xxyy} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} + M_{dxy}^{(3)} - 2M_{dxy}^{(5)} - M_{gbz}^{(1)}$$

$$M_{zzxy} = M_{dxy}^{(1)} + M_{dxy}^{(3)} + 2M_{gbz}^{(1)}$$

$$M_{xxyx} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} + M_{dxy}^{(3)} + 2M_{dxy}^{(5)} - M_{gbz}^{(1)}$$

$$M_{yzzx} = M_{dxy}^{(2)} - M_{dxy}^{(5)} + 2M_{gbz}^{(1)}$$

$$M_{xyyy} = M_{dxy}^{(1)} + 2M_{dxy}^{(2)} - M_{dxy}^{(3)} - M_{gbz}^{(1)}$$