

$$\begin{array}{c}
 \mathbf{x}^{(2)} \in \mathbb{R}^5 \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \star \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 \mathbf{C}_{(2,m_i),(1,m_f)}^{(1,m_o)} \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 \star \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \mathbf{Y}^{(1)}(\hat{\mathbf{r}}) \in \mathbb{R}^3 \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \text{Rotation } R \\
 \mathbf{R} \cdot \hat{\mathbf{r}} = (0, 1, 0) \\
 \curvearrowright
 \end{array}
 \begin{array}{c}
 \mathbf{D}^{(2)}(R) \cdot \mathbf{x}^{(2)} \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \star \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 \mathbf{C}_{(2,m_i),(1,m_f)}^{(1,m_o)} \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 \star \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \mathbf{Y}^{(1)}(0, 1, 0) \\
 \begin{bmatrix} 0 \\ 1 \\ 0 \end{bmatrix}
 \end{array}
 \begin{array}{c}
 = \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \mathbf{D}^{(2)}(R) \cdot \mathbf{x}^{(2)} \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \star \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 \mathbf{C}_{(2,m_i),(1,0)}^{(1,m_o)} \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 = \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \mathbf{D}^{(2)}(R) \cdot \mathbf{x}^{(2)} \\
 \text{--- 1D array ---}
 \end{array}
 \begin{array}{c}
 \star \\
 \text{--- 3D tensor ---}
 \end{array}
 \begin{array}{c}
 \text{Sparse matrix} \\
 \text{--- 3D tensor ---}
 \end{array}
 \mathbf{C}_{(2,m_i),(1,0)}^{(1,m_o)}
 \end{array}$$