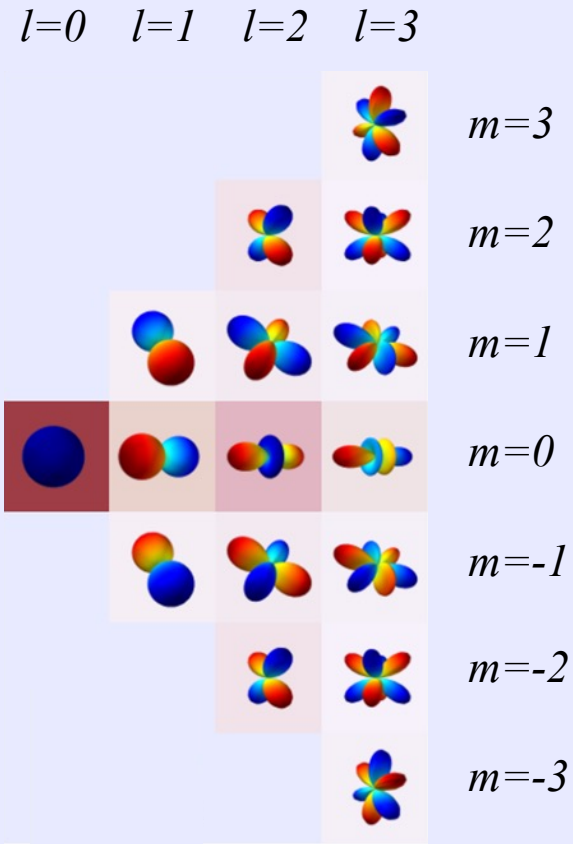
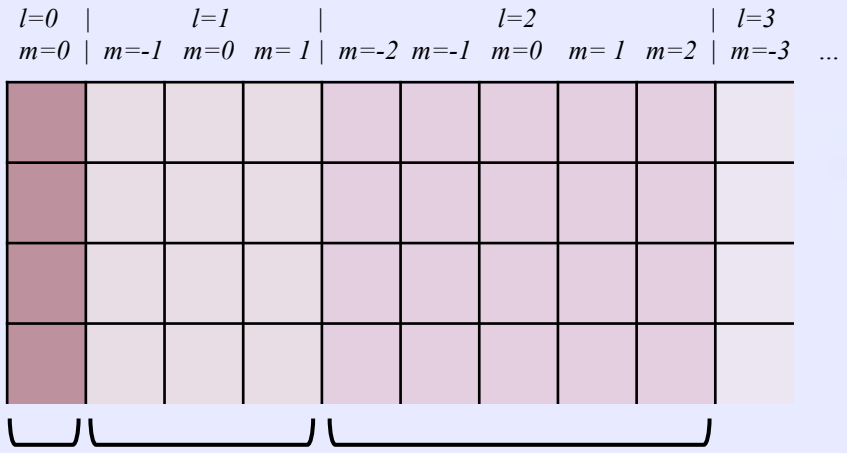
Spherical Harmonics Expansion

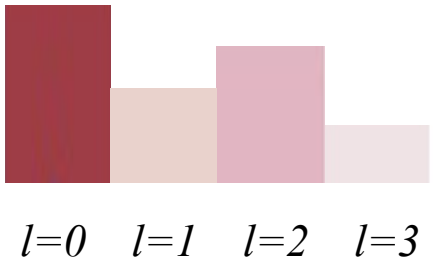


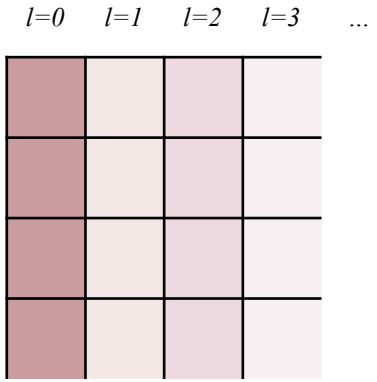
Expansion Matrix of Real Spherical Harmonics Coefficients

$$f_l(\theta,\phi) = \sum_{m=-l}^{m=l} a_{lm} Y_l^m(\theta,\phi)$$



$$SH(f) = \{\|f_0(\theta,\phi)\|, \|f_1(\theta,\phi)\|, \|f_2(\theta,\phi)\|, \ldots\}$$





Rotation Invariant Matrix