Spherical Harmonics Expansion

$$l=0$$
 $l=1$
 $l=2$
 $l=3$
 $m=3$
 $m=2$
 $m=1$
 $m=1$
 $m=0$
 $m=0$
 $m=-1$
 $m=-2$
 $m=-3$

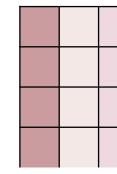
Expansion Matrix of Real Spherical Harmonics Coefficients

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

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



$$=0$$
 $l=1$ $l=2$ $l=3$...



Rotation Invariant Matrix

