

j_1	j_2	h	$Y_{\ell_1}^{m_1}(\theta_1, -\varphi)Y_{\ell_2}^{m_2}(\pi - \theta_2, 0)$	$\Theta_h^{j_1 j_2}(\cos \theta_1, \cos \theta_2, \varphi)$
0	0	0	$\sqrt{\pi}Y_0^0Y_0^0$	$\frac{1}{2\sqrt{2\pi}}$
0	1	0	$\sqrt{\pi}Y_0^0Y_1^0$	$-\frac{\sqrt{3}}{2\sqrt{2\pi}}\cos\theta_2$
1	0	0	$\sqrt{\pi}Y_1^0Y_0^0$	$\frac{\sqrt{3}}{2\sqrt{2\pi}}\cos\theta_1$
0	2	0	$\sqrt{\pi}Y_0^0Y_2^0$	$\frac{\sqrt{5}}{4\sqrt{2\pi}}(3\cos^2\theta_2 - 1)$
2	0	0	$\sqrt{\pi}Y_2^0Y_0^0$	$\frac{\sqrt{5}}{4\sqrt{2\pi}}(3\cos^2\theta_1 - 1)$
1	1	0	$\sqrt{\pi}Y_1^0Y_1^0$	$-\frac{3}{2\sqrt{2\pi}}\cos\theta_1\cos\theta_2$
1	1	\parallel	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_1^{-1}Y_1^{+1} + Y_1^{+1}Y_1^{-1})$	$-\frac{3}{4\sqrt{\pi}}\sin\theta_1\sin\theta_2\cos\varphi$
1	1	\perp	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_1^{-1}Y_1^{+1} - Y_1^{+1}Y_1^{-1})$	$-i\frac{3}{4\sqrt{\pi}}\sin\theta_1\sin\theta_2\sin\varphi$
1	2	0	$\sqrt{\pi}Y_1^0Y_2^0$	$\frac{\sqrt{15}}{4\sqrt{2\pi}}\cos\theta_1(3\cos^2\theta_2 - 1)$
1	2	\parallel	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_1^{-1}Y_2^{+1} + Y_1^{+1}Y_2^{-1})$	$\frac{3\sqrt{5}}{4\sqrt{\pi}}\sin\theta_1\sin\theta_2\cos\theta_2\cos\varphi$
1	2	\perp	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_1^{-1}Y_2^{+1} - Y_1^{+1}Y_2^{-1})$	$i\frac{3\sqrt{5}}{4\sqrt{\pi}}\sin\theta_1\sin\theta_2\cos\theta_2\sin\varphi$
2	1	0	$\sqrt{\pi}Y_2^0Y_1^0$	$-\frac{\sqrt{15}}{4\sqrt{2\pi}}(3\cos^2\theta_1 - 1)\cos\theta_2$
2	1	\parallel	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_2^{-1}Y_1^{+1} + Y_2^{+1}Y_1^{-1})$	$-\frac{3\sqrt{5}}{4\sqrt{\pi}}\sin\theta_1\cos\theta_1\sin\theta_2\cos\varphi$
2	1	\perp	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_2^{-1}Y_1^{+1} - Y_2^{+1}Y_1^{-1})$	$-i\frac{3\sqrt{5}}{4\sqrt{\pi}}\sin\theta_1\cos\theta_1\sin\theta_2\sin\varphi$
2	2	0	$\sqrt{\pi}Y_2^0Y_2^0$	$\frac{5}{8\sqrt{2\pi}}(3\cos^2\theta_1 - 1)(3\cos^2\theta_2 - 1)$
2	2	\parallel_1	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_2^{-1}Y_2^{+1} + Y_2^{+1}Y_2^{-1})$	$\frac{15}{4\sqrt{\pi}}\sin\theta_1\cos\theta_1\sin\theta_2\cos\theta_2\cos\varphi$
2	2	\perp_1	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_2^{-1}Y_2^{+1} - Y_2^{+1}Y_2^{-1})$	$i\frac{15}{4\sqrt{\pi}}\sin\theta_1\cos\theta_1\sin\theta_2\cos\theta_2\sin\varphi$
2	2	\parallel_2	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_2^{-2}Y_2^{+2} + Y_2^{+2}Y_2^{-2})$	$\frac{15}{16\sqrt{\pi}}\sin^2\theta_1\sin^2\theta_2\cos(2\varphi)$
2	2	\perp_2	$\frac{\sqrt{\pi}}{\sqrt{2}}(Y_2^{-2}Y_2^{+2} - Y_2^{+2}Y_2^{-2})$	$i\frac{15}{16\sqrt{\pi}}\sin^2\theta_1\sin^2\theta_2\sin(2\varphi)$