n	$m=-3$	$m=-2$	$m=-1$	$m=0$	$m=1$	$m=2$	$m=3$
0				$\frac{1}{2}$			
1			$\sqrt{3}\sin\theta\sin\phi$	$\sqrt{3}\cos\theta$	$\sqrt{3}\sin\theta\cos\phi$		
2		$\frac{1}{2}\sqrt{15}\sin^2\theta\sin(2\phi)$	$\sqrt{15}\sin\theta\cos\theta\sin\phi$	$\frac{1}{2}\sqrt{5}(3\cos^2\theta-1)$	$\sqrt{15}\sin\theta\cos\theta\cos\phi$	$\frac{1}{2}\sqrt{15}\sin^2\theta\cos(2\phi)$	
3	$\frac{1}{2}\sqrt{35}\sin^3\theta\sin(3\phi)$	$\frac{1}{2}\sqrt{105}\sin^2\theta\cos\theta\sin(2\phi)$	$\frac{1}{2}\sqrt{21}\sin\theta(5\cos^2\theta-1)\sin\phi$	$\frac{1}{2}\sqrt{7}(5\cos^3\theta-3\cos\theta)$	$\frac{1}{2}\sqrt{21}\sin\theta(5\cos^2\theta-1)\cos\phi$	$\frac{1}{2}\sqrt{105}\sin^2\theta\cos\theta\cos(2\phi)$	$\frac{1}{2}\sqrt{35}\sin^3\theta\cos(3\phi)$

n	$m=-3$	$m=-2$	$m=-1$	$m=0$	$m=1$	$m=2$	$m=$
0				$\frac{1}{2}$			
1			$\sqrt{3}\sin\theta\sin\phi$	$\sqrt{3}\cos\theta$	$\sqrt{3}\sin\theta\cos\phi$		
2		$\frac{\sqrt{15}}{4}(1-\cos(2\theta))\sin(2\phi)$	$\sqrt{15}\sin\phi\sin\theta\cos\theta$	$\frac{1}{2}\sqrt{5}(3\cos^2\theta-1)$	$\sqrt{15}\cos\phi\sin\theta\cos\theta$	$\frac{\sqrt{15}}{4}(1-\cos(2\theta))\cos(2\phi)$	
3	$\frac{\sqrt{35}}{4}(3\sin\theta-\sin(3\theta))\sin(3\phi)$	$\frac{\sqrt{105}}{4}\sin(2\theta)\cos\theta\sin(2\phi)$	$\frac{\sqrt{21}}{4}(3\sin\theta-\sin(3\theta))\sin\phi$	$\frac{\sqrt{7}}{2}\left(5\cos^3\theta-3\cos\theta\right)$	$\frac{\sqrt{21}}{4}(3\sin\theta-\sin(3\theta))\cos\phi$	$\frac{\sqrt{105}}{4}\sin(2\theta)\cos\theta\cos(2\phi)$	$\frac{\sqrt{35}}{4}(3\sin\theta-s$