

n	l	m	Funciones de onda (Parte radial y angular)	
1	0	0	$\left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} e^{-Zr/a_0}$	
2	0	0	$\left(\frac{1}{4}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{2\pi}\right)^{1/2} \left(2 - \frac{Zr}{a_0}\right) e^{-Zr/2a_0}$	
	1	0	$\left(\frac{1}{4}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{2\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right) \cos\theta e^{-Zr/2a_0}$	
		1	1	$\left(\frac{1}{4}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right) \text{sen}\theta e^{i\phi} e^{-Zr/2a_0}$
		-1	$\left(\frac{1}{4}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right) \text{sen}\theta e^{-i\phi} e^{-Zr/2a_0}$	
3	0	0	$\left(\frac{1}{243}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{3}{\pi}\right)^{1/2} \left(27 - \frac{18Zr}{a_0} + 2\frac{Z^2r^2}{a_0^2}\right) e^{-Zr/3a_0}$	
	1	0	$\left(\frac{1}{81}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{2}{\pi}\right)^{1/2} \left(\frac{6Zr}{a_0} - \frac{Z^2r^2}{a_0^2}\right) \cos\theta e^{-Zr/3a_0}$	
		1	1	$\left(\frac{1}{81}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{6Zr}{a_0} - \frac{Z^2r^2}{a_0^2}\right) \text{sen}\theta e^{i\phi} e^{-Zr/3a_0}$
		-1	-1	$\left(\frac{1}{81}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{6Zr}{a_0} - \frac{Z^2r^2}{a_0^2}\right) \text{sen}\theta e^{-i\phi} e^{-Zr/3a_0}$
	2	0	0	$\left(\frac{1}{486}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{6}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right)^2 [3\cos^2\theta - 1] e^{-Zr/3a_0}$
		1	1	$\left(\frac{1}{81}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right)^2 \text{sen}\theta \cos\theta e^{i\phi} e^{-Zr/3a_0}$
		-1	-1	$\left(\frac{1}{81}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right)^2 \text{sen}\theta \cos\theta e^{-i\phi} e^{-Zr/3a_0}$
		2	2	$\left(\frac{1}{162}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right)^2 \text{sen}^2\theta e^{2i\phi} e^{-Zr/3a_0}$
		-2	-2	$\left(\frac{1}{162}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right)^2 \text{sen}^2\theta e^{-2i\phi} e^{-Zr/3a_0}$
4	0	0	$\left(\frac{1}{48}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{6}{\pi}\right)^{1/2} \left(24 - \frac{18Zr}{a_0} + 3\frac{Z^2r^2}{a_0^2} - \frac{Z^3r^3}{8a_0^3}\right) e^{-Zr/4a_0}$	
	1	0	$\left(\frac{1}{128}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{5\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right) \left(20 - \frac{5Zr}{a_0} + \frac{Z^2r^2}{4a_0^2}\right) \cos\theta e^{-Zr/4a_0}$	
		1	1	$\left(\frac{1}{128}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{10\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right) \left(20 - \frac{5Zr}{a_0} + \frac{Z^2r^2}{4a_0^2}\right) \text{sen}\theta e^{i\phi} e^{-Zr/4a_0}$
		-1	-1	$\left(\frac{1}{128}\right) \left(\frac{Z}{a_0}\right)^{3/2} \left(\frac{1}{10\pi}\right)^{1/2} \left(\frac{Zr}{a_0}\right) \left(20 - \frac{5Zr}{a_0} + \frac{Z^2r^2}{4a_0^2}\right) \text{sen}\theta e^{-i\phi} e^{-Zr/4a_0}$

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4	2	0	$\left(\frac{1}{3072}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{3}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^2\left(6-\frac{Zr}{2a_0}\right)[3\cos^2\theta-1]e^{-Zr/4a_0}$
		1	$\left(\frac{1}{1536}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{6}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^2\left(6-\frac{Zr}{2a_0}\right)\text{sen}\theta\cos\theta e^{i\phi}e^{-Zr/4a_0}$
		-1	$\left(\frac{1}{1536}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{6}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^2\left(6-\frac{Zr}{2a_0}\right)\text{sen}\theta\cos\theta e^{-i\phi}e^{-Zr/4a_0}$
		2	$\left(\frac{1}{3072}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{6}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^2\left(6-\frac{Zr}{2a_0}\right)\text{sen}^2\theta e^{2i\phi}e^{-Zr/4a_0}$
		-2	$\left(\frac{1}{162}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{6}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^2\left(6-\frac{Zr}{2a_0}\right)\text{sen}^2\theta e^{-2i\phi}e^{-Zr/4a_0}$
4	3	0	$\left(\frac{1}{15360}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{5}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3[5\cos^3\theta-3\cos\theta]e^{-Zr/4a_0}$
		1	$\left(\frac{1}{30400}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{15}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3[5\cos^2\theta-1]\text{sen}\theta e^{i\phi}e^{-Zr/4a_0}$
		-1	$\left(\frac{1}{30400}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{15}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3[5\cos^2\theta-1]\text{sen}\theta e^{-i\phi}e^{-Zr/4a_0}$
		2	$\left(\frac{1}{3072}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{6}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3\text{sen}^2\theta\cos\theta e^{2i\phi}e^{-Zr/4a_0}$
		-2	$\left(\frac{1}{3072}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{6}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3\text{sen}^2\theta\cos\theta e^{-2i\phi}e^{-Zr/4a_0}$
		3	$\left(\frac{1}{6144}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{1}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3\text{sen}^3\theta e^{3i\phi}e^{-Zr/4a_0}$
		-3	$\left(\frac{1}{6144}\right)\left(\frac{Z}{a_0}\right)^{3/2}\left(\frac{1}{\pi}\right)^{1/2}\left(\frac{Zr}{a_0}\right)^3\text{sen}^3\theta e^{-3i\phi}e^{-Zr/4a_0}$