	n	normalization	exp	1	b	r	m	norm_adj	Theta	Phi
1s	1	1/sqrt(pi)	-br	0	3/2	1	0	1	1	1

	n	normalization	exp	-	b	r	m	norm_adj	Theta	Phi
2s	2	1/sqrt(32pi)	-br/2	0	3/2	2-br	0	1	1	1

	n	normalization	exp	ı	b	r	m	norm_adj	Theta	Phi
2ру				1	5/2	r	-1	1	Sin	Sin
2pz							0	1	Cos	1
2px							1	1	Sin	Cos

	n	normalization	exp	1	b	r	m	norm_adj	Theta	Phi
3s	3	1/81sqrt(pi)	-br/3	0	3/2	27-18br-2(br)**2	0	1/sqrt(3)	1	1

	n	normalization	ехр	1	b	r	m	norm_adj	Theta	Phi
Зру	3			1	5/2	(6-br)r	-1	sqrt(2)	Sin	Sin
3pz	3			1			0	sqrt(2)	Cos	1
Зрх	3			1			1	sqrt(2)	Sin	Cos

	n	normalization	exp	ı	b	r	m	norm_adj	Theta	Phi
3dxy	3			2	7/2	r**2	-2	1/sqrt(2)	Sin**2	Sin(2phi)
3dyz	3			2			-1	Sqrt(2)	Sin*cos	Sin
3dz2	3			2			0	1/sqrt(6)	3cos**2-1	1
3dxz	3			2			1	Sqrt(2)	Sin*cos	Cos
3dx2-y2	3			2			2	1/sqrt(2)	Sin**2	Cos(2phi)

	n	normalization	exp	-	b	r	m	norm_adj	Theta	Phi
4s	4	1/(512sqrt(pi))	-br/4	0	3/2	192-144br+24(br)**2-(br)**3	0	1/3	1	1

	n	normalization	exp	ı	b	r	m	norm_adj	Theta	Phi
4ру	4			1	5/2	(80-20br+(br)**2)r	-1	1/sqrt(5)	Sin	Sin
4pz	4			1			0	1/sqrt(5)	Cos	1
4px	4			1			1	1/sqrt(5)	Sin	Cos

	n	normalization	exp	1	b	r	m	norm_adj	Theta	Phi
4dxy	4			2	7/2	(12-br)r**2	-2	1/sqrt(3)	Sin**2	Sin(2phi)
4dyz	4			2			-1	1/sqrt(12)	Sin*cos	sin
4dz2	4			2			0	1/6	3cos**2-1	1
4dxz	4			2			1	1/sqrt(12)	Sin*cos	Cos
4dx2-y2	4			2			2	1/sqrt(3)	Sin**2	Cos(2phi)

	n	normalization	exp	1	b	r	m	norm_adj	Theta	Phi
4f	4			3	9/2	r**3	-3	1/(6*np.sqrt(2))		
4f	4			3			-2	np.sqrt(3)/(6*np.sqrt(2))		
4f	4			3			-1	np.sqrt(3)/(6*np.sqrt(10))		
4f	4			3			0	1/(6*np.sqrt(5))		
4f	4			3			1			
4f	4			3			2			
4f	4			3			3			