

nu 0	e	h bar	m sub e	a0	g	alpha	3/4*1/2	c	mp
1.2566371E-06	1.60217653E-19	1.05457168E-34	9.1093826E-31	5.291772108E-11	2.0023193043718	7.2973526E-03	8.6602540E-01	2.99792458E+08	1.67262171E-27
		h	electron reduced mass	aH					
		6.6260693E-34	9.1044242E-31	5.2917721080E-11					
						E predicted spin-orbital (Hz) and (eV) (Eqs. (2.106) and (2.107))	E predicted spin-orbital (Hz) and (eV) (Eq. (2.103))		
						1.0927012E+10	1.0927011E+10		
						4.51904860E-05	4.5190485E-05		
						E predicted fine struct. (Hz) and (eV) (Eqs. (2.113) and (2.114))	E predicted fine structure (MHz)	Cal. Wavelength (cm)	
						10969424834	10969.42483	2.73298	
						4.53659E-05			
						Experimental Frequency (MHz) and (eV)			
						1.09691E+04			
						4.53644E-05			
nu 0	e	h bar	m sub e	a0	g	alpha	3/4*1/2	c	mp
1.2566371E-06	1.60217653E-19	1.05457168E-34	9.1093826E-31	5.291772108E-11	2.0023193043718	7.2973526E-03	8.6602540E-01	2.99792458E+08	1.67262171E-27
		h		aH	epsilon 0				
		6.6260693E-34		5.2946540972E-11	8.854187817E-12				
				e reduced mass					
				9.10442E-31					
E (H) (eV) (Eq. (1.233) with aH)	E(hv) (eV) (Eq. (2.108))	E delta f (Hz) (Eq. (2.109))	E(hv) (eV) (from Eq. (2.110))	H delta f (Hz) (Eq. (2.110))	Lamb Shift Cal. (Hz) and (MHz) and (eV) (Eqs. (2.111) and (2.112))				
13.59828638	0.326196	25188334.99	11.56508348	17224900.05	4.2413235E+07				
		25.1883		17.2249	42.4132				
					1.75407E-07				