pi	nu 0	e	h bar	m sub e	a0	c	mp	D/C m			
3.1415927E+00	1.2566371E-06	1.6021892E-19	1.0545888E-34	9.1095345E-31	5.2917706E-11	2.9979246E+08	1.6726486E-27	2.9979246E+29			
	epsilon 0	eV/cm^-1			aH	k	md	q/e	u (bond moment)	u (bond moment) D	1.13
	8.85E-12	0.000123985			5.29465E-11	1.3806505E-23	3.3435860E-27	0.24079	4.70492E-30	1.41050	1.27
									polarized u (bond moment) limit	polarized u (bond moment) limit (D)	0.27
			MP		aD	R of Xe initial (Eq. (10.102))			5.16444E-30	1.54826	
			4.492Å		5.29321E-11	1.12168					
a (m)	b (m)	c' (m)	2c' (m)	eccentricity		R of Xe 5p3 HO final	E coul 5p3	E of Xe	Hybridization Factor	R Xe 5p3 HO final	D Xe 5p3
8.44037E-10	8.13655E-10	2.24420E-10	4.48841E-10	0.26589	N	1.26483	10.75704	12.129842	0.88682	6.69318E-11	1.33864E-10
15.94999	15.37585	4.24093	8.48187		6.0221415E+23	R Xe 5s	IP Xe6+			R Xe 5s	
						1.03974	91.6			5.50209E-11	
						R Xe 4d	IP Xe8+			R Xe 4d	
1.00000						0.680857581	179.85			3.60294E-11	
1.12762						R Xe 4p	IP Xe18+			R Xe 4p	
	Ve (eV)	Vp (eV)	T (eV)	Vm (eV)	Et (eV)	0.451546334	572.5			2.38948E-11	
	-3.49612	3.20821	0.10960	-0.05480	-0.23311	R Xe 4s	IP Xe24+			R Xe 4s	
						0.3989036	852.7			2.11091E-11	
Evib Xe-Xe (eV)						R Xe 3d	IP Xe26+			R Xe 3d	
0.00062						0.246548126	1490			1.30468E-11	
						R Xe 3p	IP Xe36+			R Xe 3p	
cm-1/eV	w (s-1)	EK (eV)				0.197572507	2548			1.04551E-11	
1.239810E-04	4.32164E+14	0.28446				R Xe 3s	IP Xe42+			R Xe 3s	
kcal/mole/eV						0.177502904	3296			9.39305E-12	
4.336340E-02						R Xe 2p	IP Xe44+			R Xe 2p	
kJ/mole/eV						0.084753762	7224			4.48497E-12	
0.010364101						R Xe 2s	IP Xe50+			R Xe 2s	
						0.072230273	9606.72			3.82226E-12	
						R Xe 1s	IP Xe52+			R Xe 1s	
						0.017905619	40272.7			9.47524E-13	
	EDoppler (eV)	Xe-Xe Eocs (eV)	Xe-Xe ET (eV)	Cal. ECoulomb (eV)							
	0.00025	-0.00006	0.23305	0.23305							
XeXe MO vibration	w(0) (s-1)										
u Xe-Xe	1.9184688E-01										
65.50000	9.4573072E-02										
k(0)	9.7273813E-02	Evib(0) (eV)						Cohesive energy (eV)	Cohesive energy (kJ/mole)		
	9.42269E+11	0.00062						0.16608	16.02472		
					Energy Parameters	0 K			Klein p. 250		
					u (Cm)	density (g/cm^3)	N	U (eV)	U (kJ/mole)		
			angle of intersection with Xe		4.70492E-30	3.78	1.73385E+28	0.18037	17.403		
			40.31332351								
			#NUM!								
		theta prime	#NUM!								
		theta Xe	#NUM!								
			#NUM!								
			#NUM!								
			#NUM!								
		theta H2 MO	#NUM!								
		dH2 MO	#NUM!	#NUM!							
		d Xe HO	#NUM!	#NUM!							
			Initial Parameters								
	Theory		r 5p3	E 5p3							
Xe5+	66.703	21	1.26483	10.757040							
Xe4+	54.14										
Xe3+	40.9										
Xe2+	31.050										
Xe+	20.975										
Xe	12.129842										
total	225.897842										