

H2+ and D2+ vibration and rotation

pi	nu 0	e	h bar	m sub e	a0	c	mp	
	3.1415927E+00	1.2566371E-06	1.6021892E-19	1.0545888E-34	9.1095345E-31	5.2917706E-11	2.9979246E+08	1.6726486E-27
	epsilon 0				aH		md	
	8.85E-12				5.29465E-11		3.3435860E-27	
					aD			
		H2+			5.29321E-11			
			w(0) (s-1)					
			388.5944744					
			57.56955176					
		k(0)	165.5124613	E vib (0) (eV)	A(0) (m)	A (a0)		
			4.44865E+14	0.292817695	5.95244E-12	0.112484896		
						Ac'		
			329.9931055			0.056242448	acent XA	
			48.88786747					
			140.552619	Evib(1) (eV)				
			4.09951E+14	0.269836963				
		D2+						
			w(0) (s-1)					
			388.9117647					
			57.61655774					
		k(0)	165.6476035	E vib (0) (eV)	A(0) (m)	A(0) (a0)		
			3.14695E+14	0.207137891	5.00437E-12	0.094568847		
						Ac'		
						0.047284424	acent XA	
			338.8527667					
			50.20040987					
			144.3261784	Evib(1) (eV)				
			2.93745E+14	0.19334793				
H2+ rot (eV)								
	0.007409958							
D2+ rot (eV)								
	0.003704979							