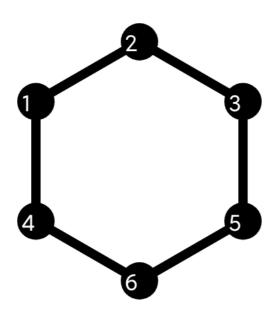
Print calculated values

Report generated by:root, 20.01.2020 - 21:02:57

The following determinant is calculated:

-X	1.0	0.0	1.0	0.0	0.0
1.0	-X	1.0	0.0	0.0	0.0
0.0	1.0	-X	0.0	1.0	0.0
1.0	0.0	0.0	-X	0.0	1.0
0.0	0.0	1.0	0.0	-X	1.0
0.0	0.0	0.0	1.0	1.0	-x

It is about this molecule:

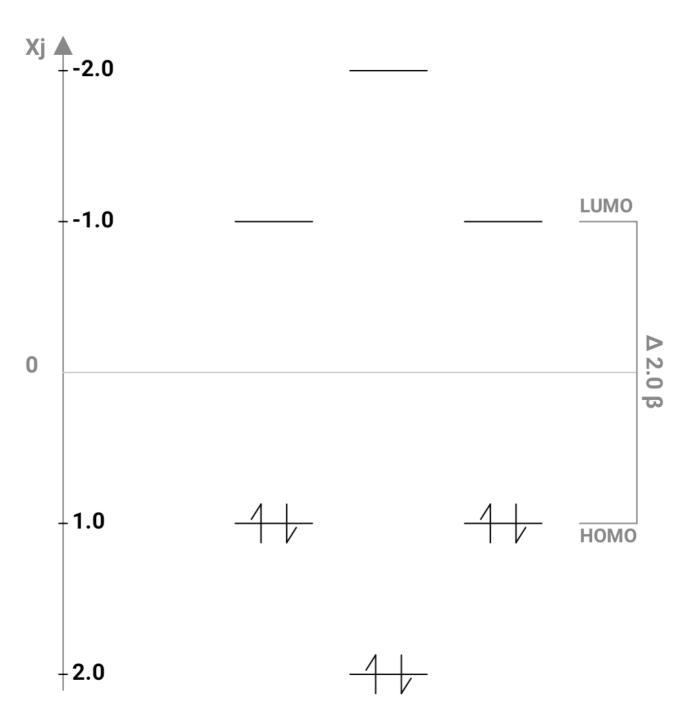


HMO-Energies

$$x1 = 2.0$$
; $x2 = 1.0$; $x3 = 1.0$; $x4 = -1.0$; $x5 = -1.0$; $x6 = -2.0$;

1. Energy-eigenvalues

1.1. Calculated values:



total Power E π : $6\alpha + 8.0\beta$ -

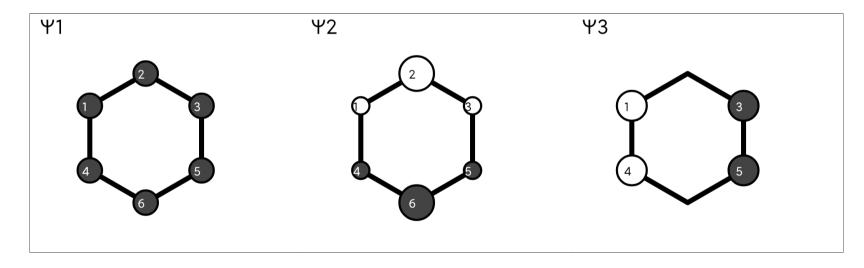
this corresponds to one π electron: 1.333 β

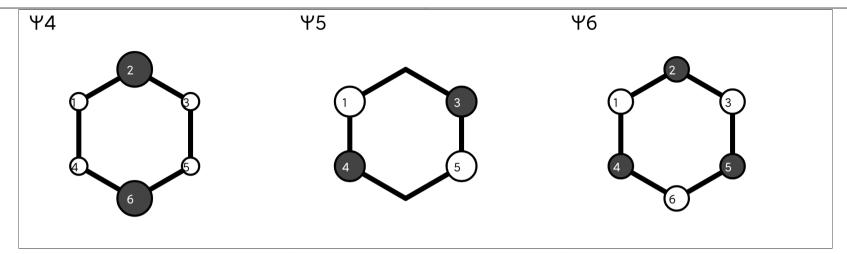
2. Hueckel-coefficient

2.1. Calculated values:

	Psi 1	Psi 2	Psi 3	Psi 4	Psi 5	Psi 6
	x1= 2.0	x2= 1.0	x3= 1.0	x4= -1.0	x5= -1.0	x6= -2.0
1	-0.408	0.289	0.5	0.289	0.5	0.408
2	-0.408	0.577	0.0	-0.577	0.0	-0.408
3	-0.408	0.289	-0.5	0.289	-0.5	0.408
4	-0.408	-0.289	0.5	0.289	-0.5	-0.408
5	-0.408	-0.289	-0.5	0.289	0.5	-0.408
6	-0.408	-0.577	0.0	-0.577	0.0	0.408

2.2. Molecule orbital presentation:



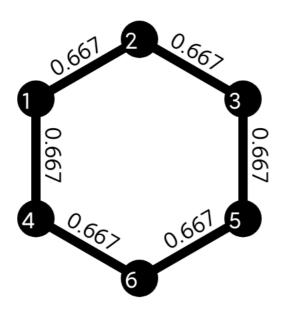


3. Bond Order

3.1. Calculated values:

	1	2	3	4	5	6
1	1.0					
2	0.667	1.0				
3	0.0	0.667	1.0			
4	0.667	0.0	-0.333	1.0		
5	-0.333	0.0	0.667	0.0	1.0	
6	0.0	-0.333	0.0	0.667	0.667	1.0

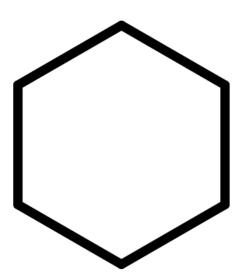
3.2. Presentation of bond order:



4. Net Charge

4.1. Calculated values:

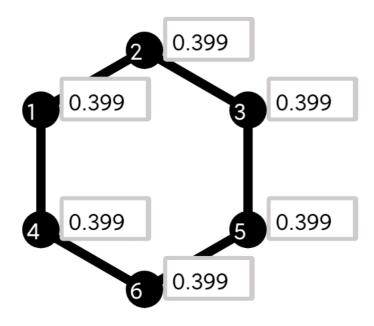
	1	2	3	4	5	6
1	0.0					
2		0.0				
3			0.0			
4				0.0		
5					0.0	
6						0.0



5. Free valences

5.1. Calculated values:

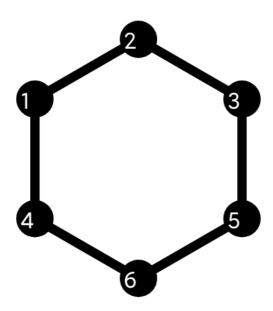
1	2	3	4	5	6
0.399	0.399	0.399	0.399	0.399	0.399



6. Atom-Atom-Polarizability

6.1. Calculated values:

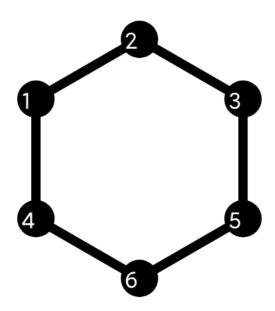
	1	2	3	4	5	6
1	0.398					
2	-0.157	0.398				
3	0.009	-0.157	0.398			
4	-0.157	0.009	-0.102	0.398		
5	-0.102	0.009	-0.157	0.009	0.398	
6	0.009	-0.102	0.009	-0.157	-0.157	0.398



7. Bond-Atom-Polarizability

7.1. Calculated values:

	1	2	3	4	5	6
1 2	0.0	0.0	0.0	0.0	0.0	0.0
14	0.0	0.0	0.0	0.0	0.0	0.0
2 3	0.0	0.0	0.0	0.0	0.0	0.0
3 5	0.0	0.0	0.0	0.0	0.0	0.0
4 6	0.0	0.0	0.0	0.0	0.0	0.0
5 6	0.0	0.0	0.0	0.0	0.0	0.0



8. Bond-Bond-Polarizability

8.1. Calculated values:

	12	14	2 3	3 5	46	5 6
1 2	0.241					
1 4	-0.204	0.241				
2 3	-0.204	0.13	0.241			
3 5	0.13	-0.093	-0.204	0.241		
4 6	0.13	-0.204	-0.093	0.13	0.241	
5 6	-0.093	0.13	0.13	-0.204	-0.204	0.241

