### **Print calculated values**

Report generated by:root, 17.02.2020 - 16:20:40

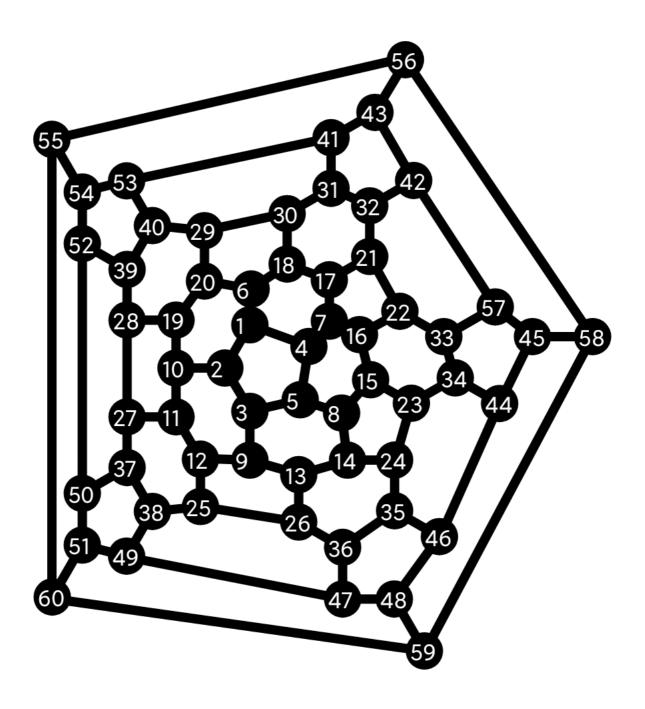
#### The following determinant is calculated:

 $0\ 0\ 0\ 0\ 1\ 0\ 0 \\$  $0\ 0\ 0\ 0\ 0\ 0\ 0\ 1\ 0\ 1 \\$  $0\ 0\ 0\ 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0\ 1 \\$  $0\ 0\ 0\ 0\ 0\ 1\ 0\ 0\ 0\ 0\ 0\ 1 \\$ 

#### It is about this molecule:

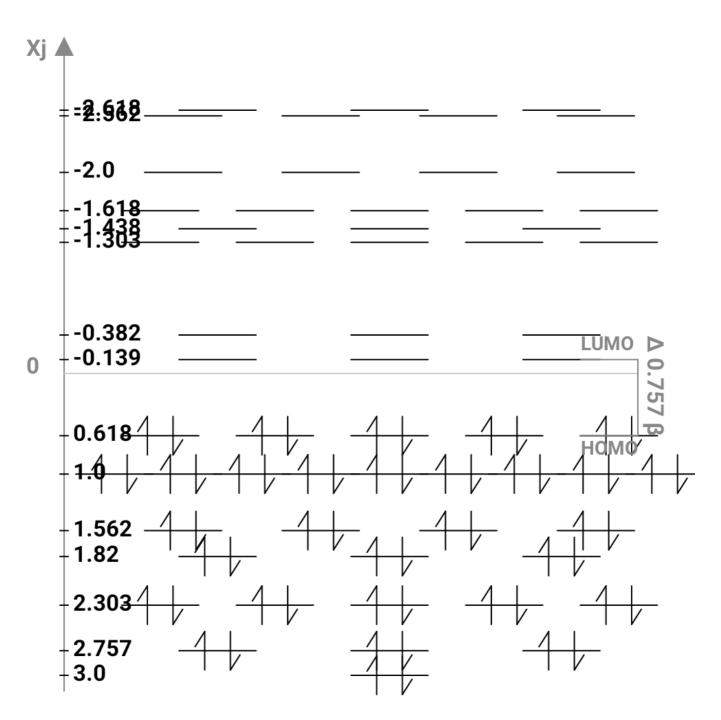
#### **HMO-Energies**

```
x1 = 3.0; \quad x2 = 2.757; \quad x3 = 2.757; \quad x4 = 2.757; \quad x5 = 2.303; \quad x6 = 2.303; \quad x7 = 2.303; \quad x8 = 2.303; \\ x9 = 2.303; \quad x10 = 1.82; \quad x11 = 1.82; \quad x12 = 1.82; \quad x13 = 1.562; \quad x14 = 1.562; \quad x15 = 1.562; \quad x16 = 1.562; \\ x17 = 1.0; \quad x18 = 1.0; \quad x19 = 1.0; \quad x20 = 1.0; \quad x21 = 1.0; \quad x22 = 1.0; \quad x23 = 1.0; \quad x24 = 1.0; \\ x25 = 1.0; \quad x26 = 0.618; \quad x27 = 0.618; \quad x28 = 0.618; \quad x29 = 0.618; \quad x30 = 0.618; \quad x31 = -0.139; \quad x32 = -0.139; \\ x33 = -0.139; \quad x34 = -0.382; \quad x35 = -0.382; \quad x36 = -0.382; \quad x37 = -1.303; \quad x38 = -1.303; \quad x39 = -1.303; \quad x40 = -1.303; \\ x41 = -1.303; \quad x42 = -1.438; \quad x43 = -1.438; \quad x44 = -1.438; \quad x45 = -1.618; \quad x46 = -1.618; \quad x47 = -1.618; \quad x48 = -1.618; \\ x49 = -1.618; \quad x50 = -2.0; \quad x51 = -2.0; \quad x52 = -2.0; \quad x53 = -2.0; \quad x54 = -2.562; \quad x55 = -2.562; \quad x56 = -2.562; \\ x57 = -2.562; \quad x58 = -2.618; \quad x59 = -2.618; \quad x60 = -2.618;
```



### 1. Energy-eigenvalues

### 1.1. Calculated values:



total Power E $\pi$ :  $60\alpha + 93.168\beta$  -

this corresponds to one  $\pi$ electron: 1.553 $\beta$ 

# 2. Hueckel-coefficient

### 2.1. Calculated values:

	F	s I 1 i	Ps Pi	s Ps	Ps i	Ps Ps	Ps i 8	Ps i 9	Ps I	Ps P: i i l1 1/	s Ps i 2 13	Ps i 14	Ps   I	Ps P i 16 1	Ps Ps i i 7 18	Ps i 19	Ps i 20	Ps   1   2   2   2   2   2   2   2   2   2	Ps   P   i   22   2	Ps   Ps   i   3   24	Ps i 25	Ps i 26	Ps   1   27   2	Ps   F   1   2   2   2   2   2   2   2   2   2	Ps Ps i i 29 30	s Ps i 0 31	Ps i 32	Ps i 33	Ps I i 34 3	Ps P i i 35 3	Ps Ps i 6 37	Ps i 38	Ps   P   1   1   1   1   1   1   1   1   1	s Ps i 0 41	Ps i 42	Ps i 43	Ps   I	Ps Ps i i 15 46	Ps i 47	Ps i 48	Ps P i 49 50	s Ps	S Ps i 52	Ps i 53	Ps i 54	Ps   1   55   1	Ps I i 56 5	Ps Ps i 57 58	s Ps i 59	Ps i 60
	3	=   = 3.   2 0   7	x2 x2 = 2 2. 75 7 7	= 2. 75 7	= 2. 30 3	=   =   2.   30   30   3	3	3	= 1. 82 82	x1 x1 1 2 = = 1. 1 82 82	= . 1.	= 1. 56	= 1. 56	x1 x 6 = 1 1. 1 56 2	=		0 = 1.	x2 x 1 = 1. 0	=   = 1.   1	2 x2 3 4 = 1. 0 0	5 = 1.	x2 6 = 0. 61 8	= 0. 61	=   = 0.   0 61   6	x2 9 0 = 0. 0. 61 8 8	= - 1 0.	x3 2 = 0. 13 9	=	4 :	x3 x3 5 6 = = - 0. 0 38 33 2 2	5 7 =	= - 1.	x3 x 9 0 = = 1. 1 30 3 3 3	= = - 1.	= - 1.		=   :	x4 x4 5 6 = = - 1. 1. 61 61 8 8	= - 1.	= 1. 61	x4 x3 9 0 = = - 1. 2 61 0	$\begin{bmatrix} -2 \\ 2 \end{bmatrix}$	2 =	x5 3 = - 2. 0		=	x5 x 6 = : 2. 2. 2. 56 5	x5 x5 7 8 = = - 2. 2. 56 61 2 8	= = 2. 1 61	2. 61
1	1 0 1 9	$2 \mid 0$	08 6	1 0. 20 7	0. 10 2	0. 0. 00 07 4 7	0. 09 3	0. 24 1	0. 0 19 0 3 9	0. 0. 08 8	- 0. 23 4	0. 07 2	0. 05 9	0 0. 1 0. 2 5	6 0. 13	- 0. 15 4	0. 16 6	- (0 0. 1 06 6	) 17 0 5 1 4		0. 08 7	0. 16	0. 18 9	0 0. 12 9	) 06 0. 02 5	0. 15 4	0. 13 7	- 0. 08 6	0. 19 7	0 08 0. 0. 0. 9		2	0. 0 14 1 8 2	1	8	0. 00 6	0. 14 8	0. 03 07	0. 20 8	- 0. 06 7	0. 17 0. 00 3	0. 18 3	0. 15 2	- 0. 1	0. 04 6	- 0. 14 7	0. 03 2 4	0. 20 01 9	0. 20 9	- 0. 07 8
2	2 0 1 9	$2 \mid 0$	8 8	- 0. 18	0. 13 9	0. 03 17 9	0. 03 7	- 0. 17 5	- (0 0. 21 4	0. 03 05 8	- 0. 11 9	0. 20 8	0. 03 5	0 0 0 0 0 5	0. 7 06 3	- 0. 08 3	0. 28 1	0. 12 9	). 0 )4 1 ) 7	7 0. 02 6	0. 06	6	0. 06 9	). 0 15 1 5 3	0. 19 0 5	0. 05	0. 17	0. 13 7	0. 12 2	0. 0. 04 13 9 1	 8 0. 14 8	- 0. 19 4	0 0. 0 08 0 5 6	0. 08 9 6	0. 13 4	- 0. 16 1	 0. 0 07 1 8 5	0. 0. 20 3	0. 07 5	0. 06 2	- 0. 0. 10 04 9	0. 5 18 4	0. 03	0. 05 6	0. 10 7	0. 22 2	0 00 0 6 0 7	0. 0. 07 03	0. 12 2	0. 18 5
3	3 0 1 9	$2 \mid 0$	).   0. 1. 01   2	- 0. 18	0. 08	0. 0. 07 1	0. 15 8	- 0. 17	0. 0 21 0 1 5	). 0. 0. 07 04	0. 13 5	0. 20 1	- (0 0. (0 08 5 3	) )3 0 5 0 4	1 9	0. 21 2	0. 00 8	0. 16 2	). 0 )3 1 2 8	. 0. 1 15 4	0. 18 6	- 0. 17	0. 0 13 0 9 2	). 0 0)9 1 2 5	3 09	- 0. 16 9	0. 05 2	0. 13 7	- 0. 12 2	0. 0. 04 1	. 0. 8 06 2	0. 11	0. 18 0 1 0 1	l_	- 0. 18 6	0. 09	- (0 0. (0 08 (6 4	0. 00 6 6	0. 07 7	0. 17 3	0. 0. 02 18 3 3	- 0. 0. 0. 8	0. 08 2	- 0. 15 8	0. 15 7	- 0. 19	0. 00 8 0 7	0. 0. 02 07 8	2 0. 01 1	0. 22 2
4	<b>4</b> 0 1 9	2 0	0. 0.	0. 22 4	0. 00 1	0 0 0. 03 4	0.	- 0. 28 7	0. 0 22 0 3 1	). 0. 00 0	0. 1 00 1	0. 25 8	0. 01 4	) 0 0 0 2	0. 0 10 4	- 0. 00 7	0. 04 6	- (0 0. 35 8	) 0 0 5	0. 05 0 9	0. 07 2	0. 00 4	0. 18	0. 0 22 0 5 7	0. 01 0	0.	00	0.	0. 0	0 0 0. 2. 4	2 00	0. 01 4	0. 00 2 2 8	0.0	0. 0	0. 00 5	- 0. 22 4	0. 02 01 5	0. 00 4	0. 01 9	- 0. 28 6	0.00	25	0. 05 9	0.	. (	- 0. 00 2 9	0. 0. 0. 0. 0. 0. 0. 25	0. 21 6	0. 05 9
4	5 0 1 9	$2 \mid 0$	)4 0	7 0. 20 7	4	0. 06 06 04 6	0. 14 7	0. 22 8	0. 0 19 0 5 5	0. 10 10 6	0. 21 9	0. 07 9	- 0. 02 6	).   1   0   0   1	0. 0 25 1	0. 11 9	17	0. (0 15 (2 9 (4	). 0 0)2 0 1 5	0. 09 5 6	0. 07	0. 07	- 0. 16 2	0. 0 15 1 1 3	) 5 0. 0. 9	0. 2	0. 05 4	0. 08 5	- 0. 19 7	0. 0. 0. 0. 0. 0. 0. 0. 0. 9.	6 0. 06 5	0. 10 7	0. 04 5	0. 7 18 4	0. 03 1	0. 16 2	0. 15 15 2	).   0   0   0   09   8	0. 05 2	16	0. 18 6 7	1 03	0.	0. 14 4	0. 09 5	0. 11 5	- 0. 03 8	). 20 7 01 7	0. 14	0. 17 3
•	6 0 1 9	2 0	3 0	0. 16	0. 09 6	0. 0. 03 7	0. 25 1	- 0. 09 4	0. 08 5 1	0. 0. 19 6	7 0. 24 6	0. 06 3	0. 04 4	). 00 5 8	 8 0. 09 5	0. 06 4	0. 06 8	0. 16 1 5	). 12 0 5 2 5	7 0.	0. 07 4	0. 01 9	0. 00 5	14   8	). 2 0. 21	0. 07 1	0. 18 8	0. 09 9	- 0. 19 7	0.00	6 0. 06 4	0. 20 8	- 0. 11 8	4 0. 04 5	0. 10 7	0. 17 5	0. 08 0 9	0. 08 07 5	0. 25 8	0. 02 8	0. 05 0. 10 3	0.18	0. 02 3	0. 08 6	0. 01	0. 15 5		 0. 0. 18 01 9		
7	7 0 1 9	2 0	0.		- 0. 16 4		0. 05 4	19	- 0. 0. 01 3	). 11 0. 19 2	9 4	0. 25 2	0. 01 01 3	). 0 )5 1 5 3	6 22	0. 02 8	0. 04	0. (0 13 1 5 2	0 1 15 2	5 0. 07	0. 05 5	- 0. 08 8	0. 08 4	). 11 0 5 2	0. 10 21 4	0. 04	0. 08 3	0. 20 3	0. 0	0. 0. 2: 4	 2 0. 09 7		- 0 0. 0 19 5	- 1 0. 15	0. 13 7	0. 17 5	0. 02 2 1		0. 15	0. 12 4	0 10 0. 6 0. 4		- 0. 14	0. 16 2	0. 05	0. 03 2	0. 02 8	0. 25 00 2	0. 21 6	0. 05 9
8	8 0	2 1	3 0	- 0. 16		0. 0. 07 19 5 1	0. 18	0.	0. 07 0 9	). 0. )3 20 7	0. 20 7	0. 06 6	0. 02 1 9	). 0 13 0 5 5	0. 1 27 6	- 0. 08 6	0. 13 4	0 03 (0 9 (5	). 0 )5 1 5 8	. 0. 6 11 7	0. 04 4	0. 12 2	0. (0. 14 (1. 11)	). 0 0. 2 04 2	0. 0. 21 04 2 3	0. 19 6	0. 04 3	0. 09 8	0. 19 7	0. 0. 0. 0. 0. 0. 9	. 0. 6 02 4	0. 01 3	- 0 0. 1 24 7 2	 3 0. 07 4	0. 14 3	0. 14 7	0. 08 0 9	9   07	- 0. 16 5	- 0. 10 5	0. 00 14 8	4 0. 03 4	0. 08 9	- 0. 18 8		- 0. 10 5	0. 09 0 9	0. 0. 01 19 7		
9	0 1 9	$2 \mid 0$	)1 19	- 9 0. 11	0. 01 8	14 7	0. 18	0. 01 1		0. 0. 14 17 2 1	0. 11 1	- 0. 18 4	- (0 0. (0 13 5	) )3 0 5 0 9	- 0. 8 23 5	0	0. 1	0. (	) -	0. 08 0 4	0.	-	0. 14 5	). 0 05 1 2 3	0. 3 17 3 3	0. 17 3	0. 12 3	- 0. 07 1	0. 12 2	0 04 0. 9 1. 1	0. 13 8		- 0 0. 0 19 3	0. 05 4	0. 10 4	0. 19 2	0. 0 04 0 7 2	) 06 0. 04 9	0. 25 2	0. 05 9	- 0. 0. 18 10 1	8 0. 14 3	0. 01 8	0. 11 7		0. 14 9	0. 01 2	) 06 0. 5 02 8	0. 01 1	0.  22  2
1	0 0 1 9	2 0	0. 1.5 1.5 1.5	- 2 0. 11	0. 13 7	0. 0. 16 19 2 5	0. 02	0. 00 8	0. 01 2 5	0. 21 04 1	- 0. 08 6	0. 19 6	0 07 ( 8 1	). 0 12 0 1 2	0. 11 7	- 0. 14 1	0. 10 7	0. 03 03 1 8	0 1. 15 3	 6 0. 21	0. 03 9	0. 05	- (	) lo	10	0	I_ I	0. 07	0. 0 12 0 2 9	0. 0. 04 13 9 1	. 0. 8 03 3	0. 16 3	- 0. 21 9	0. 2 08 5	0. 16 1	0. 14 7	0. 04 2 8	0. 23 3 4 2	0. 01	0. 14 1	0. 0. 07 1: 1 2	- 0. 14 7	0. 01 1	0. 14 7	0. 07 1	0. 23 2	- 0 0. 0 05 9	). 06 03	0. 12 2	- 0. 18 5

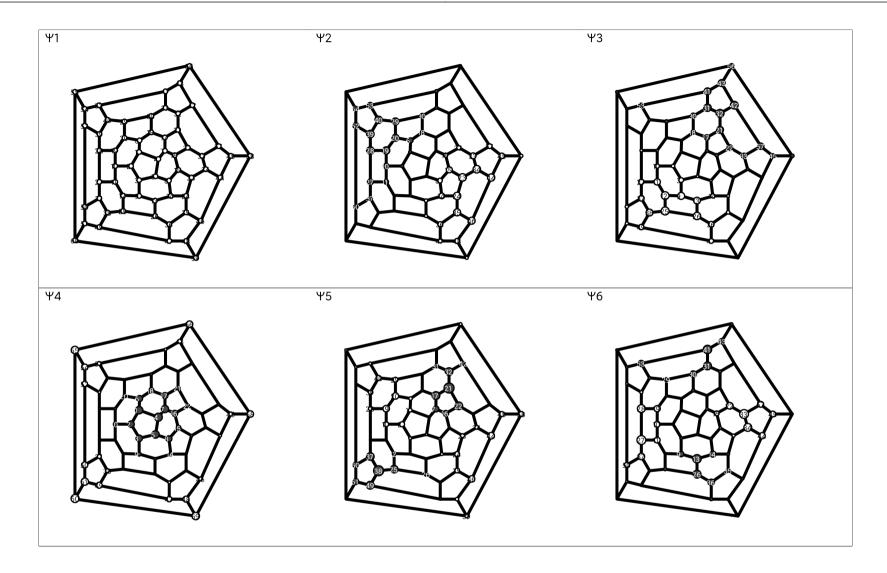
		i 2		i 4   i	Ps I	Ps P	rs Ps 7 i 8	s Ps	Ps i 10	Ps   1   1   1   1   1   1   1   1   1	Ps I i 12 1	Ps   F	Ps Ps i i 4 15	s Ps i 5 16	Ps i 17	Ps i 18	Ps P i 19 20	s Ps i 0 21	Ps i 22	Ps I 1 23 2	Ps H	Ps P i i i i	Ps Ps i 6 27	Ps i 28	Ps i 29	Ps i 30	Ps   1 i 31   3	Ps P i i 32 3.	Ps Ps i 34	Ps i 35	Ps i 36	Ps I I 37 3	Ps Ps i i 38 39	Ps i 40	Ps P i i 41 4	s Ps i 2 43	Ps i	Ps Ps i i 45 46	s Ps i 6 47	Ps i 48	Ps   1	Ps P i i 50 5	s P:	s Ps i 2 53	Ps i 54	Ps P i i 55 5	Ps Ps i i 6 57	Ps i 58	Ps Ps i i 59 60	
11	0. 12 9	- 0. 12 9	0. 17 6	0. 0 04 0 8 6	) li	0. 16 18 8	 9 0. 08 7	0.	11	0. 19 2		) )3   0 3   0 5	0. 2 12 1	0. 2 22 4	0. 17 8	0. 00 3	- 0. 08 04 1	3 0. 13 3		0. 0. 0 19 2 4 7	0. 1. 20 3	0 0 0 3	5 0. 12 2	0. 04 7	0. 24 9	0. 03 8	18	0. 0. 11 8	4 0. 18	0. 13 2	0. 0	- 0. 04 6 7	0. 04 6	0. 07 4	0. 0. 11 1: 4 2	9 3		0. 0. 16 19	0. 08 2	0. 00 7	0. 11 9		0. 08 3	3 0. 18 8		0. 0 13 1 3 7		0. 09 1	- 0. 0. 19 05 7	
12	0. 12 9	0. 04	0. 21 5	0. 0 04 1 8 3	1010	0 0. 2 03 5	1 0. 12 6	0. 09 8	0. 11 9	0. 06 4	- (0 0. (0 17 9	). 08 0 0 6	. 0. 2 0. 2 0. 2	0. 22	0. 05 6	0. 18 1	0. 02 0. 0. 0. 0. 0. 0. 2	0. 05 1	- 0. 17 7	0. 0 23 0 9 1	). 06 06 6	2 0 6	0. 9 03 3	0. 12 8	0. 12	0. 20 6	19 (	0. 09 4	4 0. 18	0. 13 2	0.	0. 0 09 2 3 7	0. 00 26 2	0. 05 7	0. 0. 0 0. 1	- 7 0. 18 3	- 0. 10 7	06   0.	0. 17 2	0. 08 2	0. 12 4	16	0. 8 02 3	0. 08 6	0. 14 5	0. 0 13 1 7 2	6 0. 02 6	0. 09 1	0. 05 0. 19 7	
13	0. 12 9	0. 09 4	9	 0. 0 07 0 4 9	). ( )) )) )) )	0 0. 0. 23 9	 3 0. 13	0. 09 7	8	- 0. ( 11 1 9	.  _	.  _	. 0. 6 04	0.	- 0. 13	13	 0. 0. 05 0: 9 6	0. 08 1	1	0 11 0 7 0 8	0 2	0 0 0 6	5	- 0. 06 8	06	0. 19	0. 0 05 1 2 9	0. 0. 12 1' 9 5	- 0. 7 10 5	0. 16 3	- 0.	0. 0 14 0 2 6			0 23 0. 6 0. 3			0. 0. 03 16	0. 3 15 9	0. 16	0. 06 4	0 0. 1- 01 4	4 0. 14	- 0. 16 2	0. 20 9	- 0 0. 1 05 3	2 0. 06 7	7	0. 0. 07 16 3 1	
14	0. 12 9	0. 15 7		- 0. 10 5		17   1. 7	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1 7	6	3 8	16	). 0 04 0 5 3	1 08	0. 24	0. 16 3	0. 06 4	- 0. 04 1 6	0. 02 8	0. 00 7	0. 10 3	). 0 07 2 4	0 2 3	. 0. 2 10 3	0. 10 2	0. 03	0. 11	0. 00 2	0. 05 6 6	. 0. 1 10 5	0. 16 3		- 0. 12 2	). [0.	0. 15	0. 0. 13 2 4 1	0. 02 1 3	0. 07	) 19 0. 5 02 8	2 9	10	0. 0 13 3	15 1	4 1	7	20	9	0 6		0. 07 16 3	
15		0. 16 7	0. 01 2	- 0. 14 8	). 00 7	0. 06 0 1 2. 2	- 0. 5   12 5	- 0. 00 4	0. 16 3	0. 07 1 7	0. 13 1 1	). 15 0 1 8	0. 3 15 4	5 0. 13 7	0. 17 9	0. 04	0. 0. 15 10 9 2	0. 17 1		0. 0 01 1 3		7 0 0 0 7	. 0. 7 02 8	0. 27 7	0. 00 8	0. 00 5	0. 17 1	0. 00 0. 14 5	0. 01 7	0. 21 2	- 0. 06 9	0. 0 15 0 6 9	0. 05 10 7	0. 20 4	0 04 0. 6 0. 5	- 0. 2 07 3	- 0. 21	0. 02 24 3	0. 08 6	0. 11	0. 06 6	0 0. 16 3	0. 8 02 3	0. 08 6	0. 07 3	0 13 0 6 1 5	0. 17 8	11	0. 15 11 4	
16	0. 12 9			0. 0 16 1	).   1	13 0	. 0. 8 03	0.	09			).   0   1   0   7	0. 5 19 4	0. 11 4	- 0. 09 7	0. 15 8	0. 0. 23 00 8 4	0. 15 1	_		)   0	2 0 1 8	. 0. 0 06	- 0.	- 0.	0.	- 0.  -	- 0. 0. 09 08 8	9   - 9   0.			- 0. 02 8	0. 03 19 7	0. 14 1	0. 15 1	-	0. 09 2 8	). 22   - 22   0.	_	- 0.	0. 05 2	). 18 0 1- 3	0. 01 4	0. 11 7	0. 09 5	- 0. 08 3	 1 0. 19 6	- 0. 11	0. 0. 0. 15 11 4 9	
17	0. 12 9	0. 01 2	0. 14 8	0. 16 2 7 8	). (2) (3) (4) (4) (5) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	0 00 0 8 0 8	0. 16 4	- 0. 08 5	0. 09 6	- [1	- O. (0 18 (0	000000000000000000000000000000000000000	7 0. 22 7	0. 02 8	0. 06 4	0. 04 2	0. 27 0	0. 07 3	- 0. 11 2	0. 04 6 1	). 0 . 8 5	. 0 0 1 6	6 0. 19	0. 02 3	0. 03 3	0. 12 7	0. 17 4	0. 10 2 0. 0. 7	. 0. 9 01 7	0. 21 2	0. 06 9	0 15 0 5 1 3	0. 0. 9 6	0. 12 8	0. 04 8 19 8	- 0. 9 04 6	0. 09 4	0. 04 06 9	0. 12	0. 24 2	0. 06 2	15 1	0. 01 1	0. 14 7	0. 03 3	0. 0 00 1 2 6	- 0. 18 5	0. 10 7	- 0. 0. 19 4	
18	0. 12 9	- 0. 10 6	0. 13	- 0. 0 14 0 8 9	)5 (	 0. 0 08 0 3 7	0. 26 0	- 0. 03 3	0. 16 9	- 0. 14 6	0. 00 1 1	0 0. 10 7	5 0. 22 6	0. 02 8	- 0. 04 6	0. 06 8	0. 15 0. 0: 0: 3	0. 12 8	0. 14 2	- 0. 0. 08 2 2	0. 0. 26 2	8 0	7 0. 26 4	- 0. 08 7	0. 03 7	0. 00 5	- 0. (0 09 1 7 1	.   - 0.   0. 14   14 1   4	- 0. 4 01 7	- 0. 21 2	- 0. 06 9	0 02 0 3 0 9	0. 05 05 4	0. 21	0 18 0. 7 0	- 0. 04 5	0. 21 1	0. 0. 00 23 3 3	0. 08 3	- 0. 09 8	- (0. 11 9 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	) 14 0 9 0 4	0.08			- 0 0. 1 03 6			0. 19 0. 0. 02 4	
19	0. 12 9	0. 20 2	0. 06	- 0. 0. 07 4	). (18 1 3 2	0. 0 17 0 2 5	. 0. 7 07 7	0. 09 4	0. 12 9	0. 17 7	) )4 () 4 () 9	). 0 )4 0 )4 4	0. 20 7	0. 12 6	0. 03	0. 05 3	0. 02 0. 3 20 8	0. 03	- 0. 16 6	0. 18 0 1	) )2 0 2 2	0 0	9   11	0. 18 5	14	0. 08 7	0. 13 6	0. 0. 02 17 7 5	0. 10 7	- 0. 16 3	- 0. 11 2	0 23 0 8 0 4	0. 0. 12 06 4	$\begin{bmatrix} - \\ 0. \end{bmatrix}$	0. 0	-	0. 12	).  -	-	0.	0.  -	0 0. 1- 01 4 4	4 0. 14	- 0. 16 2	0. 07 5	0. 23 8 0 8	- 0. 1 06 2	0. 13 8	- 0. 10 14 3	
20	0. 12 9	- 0. 19 5	03	- 0. 10 5	). (0 17 (0 3 (5	0. 0 01 0 5 5	. 0. 1 21 8	0. 05 8	0. 17 9	- 0. 11 5	0 06 0 9 0 4	). 0. 04 0 1	0. 23 3 6	0.	0. 02 8	0. 02 7	0. 0. 06 13 1 2	0. 10 1	- 0. 19 1	- 0. 09 8	). 22 0 0	0 7 2 8	0. 07 1 8	0. 12 3	0. 04 7	0. 11	- 0. 04 7	0. 03 2: 7	 1 0. 10 5	0. 16 3	0. 11 2	- 0. 10 4	0. 9 00 1	0. 16 4	- 0. 0. 09 4	 7 0. 20 1	0. 06 5	0. 0. 16 2	- 4 0. 12 5	0. 12	- (0. 15 3	) 18 0 1- 3		0. 11 7	0. 09 8	- 0 0. 0 21 1	0. 0 11 2	0. 13 8	0. 14 0. 3 10 2	
21		0. 03 6	- 0. 19 1	- 0. 0 11 2 8	). (	0. 0 04 0 1 2	0. 1 05 3	0. 02 8	0. 02 4	0. 16 1	). 0. (0 15 (0 3 (8	). 0 )4 1 3 6	- 0. 8 11 6	0. 12 8	0. 14 5	0. 19 4	0. 09 10 4	5 08	0. 10 2	- 0. 0. 02 6	4 0	0 3 5	0. 05 8	0. 01 5	0. 26 7	0. 03	0. 02 8	0 21 0. 0' 2	0. 01 7	0. 13 1	0. 18 1	- 0 0. 2 12 1 9	0. 20 12 7	0. 02 9	- 0. 0. 09 7	- 0 0. 06 5	0. 05 3	0. 12 1 1 7		- 0. 16 9	- (0 0. 5 09 7	16 1	0. 8 03	0. 05 6		0. 01 2 3	0. 4 05 8	- 0. 17 5	0 1 0. 09 7	
22	0. 12 9	0. 11 5	0. 15 7	0. 0 11 2 2	). 1 21 2	0. 18 0 0 4	5 01	0. 03 6	0. 02 7	0. 05 7		). )1 0 1		0. 01 3	3		- 0. 0' 10 6	0. 11 5	0. 15 1	- 0. 03 1	). 26 0 6	0 2 1	3 0. 01 5	0. 05 2	0. 09 1	0. 13 8	- ( 0. ( 19 2	0 09 0. 2 0' 2	- 0. 7 01	0. 13	0. 18 1	0. 0 02 2 3 6	- 0. 0. 1 16 5 8	0. 00 6		1 7	0. 04 7	- 0. 0. 21 09 1 9	03	0. 11 2		 0. 0 18 0 3 8	3 2				1 4		0. 03 4 4	
23	0. 12 9	0. 21	-	- 0. 1	). ( 11 (	). )8 0	0. 0. 0.	0. 12 7	0. 12 4	- (0 0. 1 02 6	). 18 5 4	- 0. 0 08 0 4 4	0. 01 6 7	0. 23 5	0. 26 1	- 0. 15 8	0. 16 09 4	- 0. 01 9	0. 05 6	0 04 0 5 0 2	0 0 0 0 3	9 0 2 8	0. 05 7	0. 04 4	- 0. 02 7	0. 01 7	- (0 0. 1 04 2	0 13 0. 2 1' 6	-	0. 05	- 0. 11 2	- 0. 0	-	0. 01 1	0. 0. 13 10 6 8	0. 15 9	0. 11 5	). 0. 0. 07 22 1 9	0. 15 2	0. 01 2	0. 04 8	). 0 00 1 3 3	- 0. 8 15 2	- 0. 1	- 0. 18	- 0 0. 0 16 8	 5 0. 06 5	- 0. 19 4	 0. 0. 10 01 9 9	

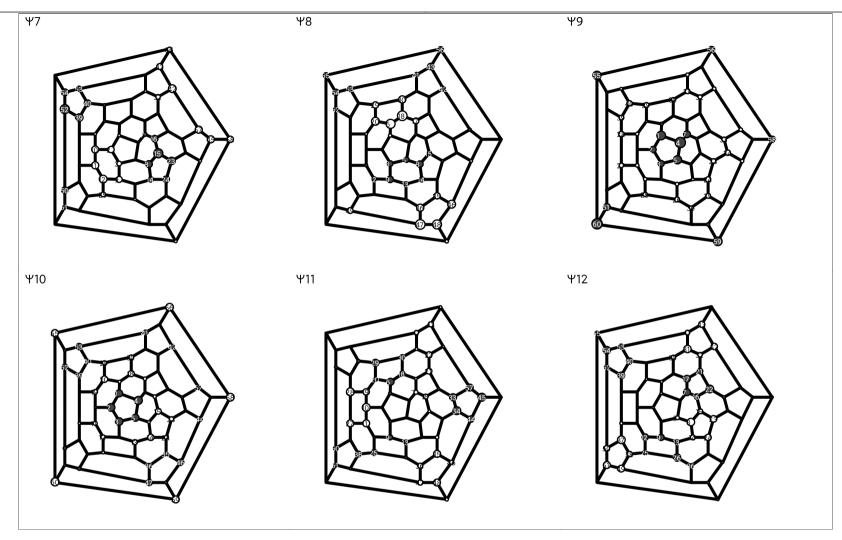
T	Ps i 1	Ps i 2	Ps i 3	Ps i 4	Ps i 5	Ps I	Ps P	s Ps			Ps i 12		Ps I i 14 1		Ps P i i 16 1	Ps   P i	Ps Ps i i 8 19	Ps i 20	Ps i 21	Ps i 22	Ps P i 23 2	Ps Pi	s P	s Ps i 6 27	Ps i 28	Ps i 29	Ps   1   30   3	Ps   1	Ps P i 32 3	Ps Ps i i 33 34	s Ps i 4 35	Ps i 36	Ps i 37	Ps 1 38 3	Ps   F i 39   4	Ps Ps i i 0 41	Ps i 42		Ps Ps i i 44 45	S Ps i 5 46	Ps i 47	Ps i 48	Ps   F i 49   5	Ps P i i i 50 5	s Ps	S Ps i 2 53	Ps i 54	Ps i 55	Ps P i 56 5	Ps Ps i 7 58	Ps i 59	Ps i 60
24	0. 12 9	0. 20 4	0. 07 7	- 0. 04 8		0. 0 08 1 7	8 0	1 7	0. 10 3	0. 09 4	5	0. 22 9	0. 0 02 1 6 7	). C 11 C 7 4	). 0 00 0 4 8	4 0	7 9	0. 33 1	0. 09 2	08	0 0. 05 5	5 0	1 0	0 01	0. 17 1	16	0. 16 5	- 0. 1 14 4	0. 0 16 0 4 7		- 0. 18	0.	0. 27 7	0. 00 00 7	0 0. 04 8	6 01	19	0. 00 4	0. 0. 11 1	0. 08 6	0. 20 3	10	0. 0 14 1 4 9	6 1	0.	0.	0. 22	0	0. 05 8 0. 0. 0. 4	0. 20 4	2	0. 08 8
25	0. 12 9	0. 00 4	0. 22 2	0. 02 6	0. 21 2	- 0. 09 9	2 0 0 0 3	0. 11 2	0. 08			0. 00 5	0. 16 1 8	). 11 ( 5 1 8	0 3 15 2	. 0	5 0. 07 2	0. 01 4	0. 10 8	0. 14 1	0. 0. 04 1	 6 0. 0. 3	0. 1 7	- 1 0. 24 6	0. 08 4	0. 04 2	0. 00 8	- (0 0. 2 01 3	0. 22 3 6	0. 0. 0. 0. 1	0. 1 13 1	0. 18 1	0. 03 6	0. 14 8	0. 0 05 1 3 1	0. 16 7 8	0. 01 3	0. 04 8	0. 21 8 0. 03 3	0. 15 9	0. 05 5	0. 08	0. 0 21 0 8 3	0. 0. 13	0. 15 2	0. 1	0. 02 1	0. 06 8	0. 0. 24 0. 5 6	0. 17 5	0. 1	0. 09 7
26	0. 12 9	0. 08 7	0. 20 6	0. 00 9	10	- 0 0. 0 21 1	7 0	0. 2 13 7	0. 05	07		0. 14 5	0. 10 1 3	). (1 15 1 6 4	). 0 10 1 1 2	. 0 2 0 8	 3 0. 18	- 0. 09 6	- 0. 13 7	0. 13 7	n  -	. 0. 2 0. 8	1_	-	-0	0. 12	0.	- (	0 08 0 5 1 2	0. 2 18 7	0. 05	0.	0. 17 5	_	- 0	)	0	0. 04 9	0. 0. 0. 15 2	0. 02 7	- 0. 13 4	I	0. 0 13 0 2	. 0.	0.	0.	- 0. 13 4	- 0. 02 5	0. 0. 21 0	. 0. 1 19 3	0. 10 7	0. 04
27	0. 12 9	0. 16 5	0. 14 9	0. 02 6	0. 04 9	0. 24 6	).   -  4   0    0    4	0. 12 4	0. 06 9	19	0. 08 7	0. 04 9	0. 18 4 1 5	17 0	). 0 00 1 7 1	. 0 6 6	. 0. 6 03 7	0. 02 1	0. 11 5	0. 29 3	- 0	. 0.	.  - 1  0.	0. 13 5	0. 22 3	0. 03 1	0. 00 8	- ( 0. 1 17 4 9	0. 0 13 0 4 6	0. 0.	0. 13 1	0. 18 1	0. 18 7	0. 04 5	0. 0 10 1 5 7	0. 06 7	0. 04 5	0. 00 3	0. 21 9	0. 13 5	- 0. 04 9	0. 04 2	- 0 0. 0 24 7	0. 0. 0. 5	3 0. 21 1	0. 14 4	0. 17 1	0. 02 8	- 0. 18 4	5 0. 17 6	0. 03 4	0. 13 4
28	0. 12 9	0. 20 9	0. 07 8	0. 00 9	10		0. 0.	0. 15	0. 04 1	21	0. 02 9	0. 05 3	0. 11 1	). 01 2 7	0. 22 7	3 0 0	0. 22 4	0. 13 3	- 0. 09 8	0. 18 3	0. 0 10 0 7 5	 0 0. 0. 0. 4	0. 10 4	0. 0. 05 4	0. 13 3	- 0. 13 9	- 0. 18	0. 02 1	0. 18 6 1 2	2 7	3 0. 0. 05	0. 11 2		0. 11 1	0. 0 05 1 8 1	0. 5   0. 12	0. 01 4	0. 15 9	0. 0. 15 03 6 9	0. 04 2	0. 13	19	0. 15 0		) 25	0. 05 9	16	0. 16 8	0. 10 2 0. 0. 0. 1	0. 19 4	1 1	0. 01 9
29	0. 12 9	19	09	- 0. 0. 04 8		0. 0 10 0 8 7	0.17 5	0. 7   0. 13 4	0. 11 1	0.	0. 00 5	7	- 0. 03 7	).   1   7   1	0 0		 1 0. 01 9	0. 09 5	0. 10 1	0. 15 2	0. 00 2 5	. 0. 0 20 7	0 0 0 1	0. 15 6	0. 04	0. 04 5	0. 22 9	- 0. 05 1	0. 0 21 0 1 7	0.  4   13  2	0.	0.	- 0. 03 9		0 0. 01 5	0. 07 25 5	0. 04	0. 18 7	0. 0. 11 5	-	-		0. 14 7 1 3	8 03	3 2		0. 18 5	0. 14 7	0. 09 0. 0. 0. 0. 0. 5	3 20		0. 08 8
30	0. 12 9	- 0. 14 1	15	07 0	0. 01 5	- 0. 18 6	0	0. 10 3	0. 12 7	- 0. 14 4	0. 11 5	0. 17	- 0. 05 1	). 0. (0 17 (0 8	0   7	. 7 0 7	 2 0. 0. 05 7	- 0. 05 5	- 0. 10 9	0. 12 8	0 14 0 8 0 6	0. 20 7	. 0. 6 1	0. 9 02 7	0. 07 2	- 0. 18 4	0. 08 7	- (0 0. 1 08 5 9	0. 10 5 1 6	7 7	3 0. 05 1	- 0. 11	0. 12 2	0. 06 2	0 05 0 9 0 1	0. 0. 00 24 7	1 7	- 0. 06 5	0. 12 0. 11 4	0. 23 3	0. 00 3	- 0. 11 1	0. 0 05 0 9 7	0. 0. 0. 5	3 0. 21	0. 14 4	- 0. 15 5	0. 05 2	0. 0. 19 0. 2 6	5 3		0. 04
31	0. 12 9	108	0. 20 6	00	10	- 0 0. 0 21 1	0. 0.	0. 2 13 7	- 0. 05	0. 07 8		0. 14 5	- 0. 0 10 1 3 6	). (1) 15 1 6 4	0 1 10 2	. 0 2 0 8	 3 0. 18	09	- 0. 13 7	0. 13 7	0 22 0 4 0 2	. 0. 2 0. 8	0. 10. 2 8	0. 0 12 7	0. 09 1	0. 12 1	- 0. 18	0. 16 7	0. 0. 0. 0. 1 2 5	) 2 0. 18 7		0. 11 1	5	- 0. 12 6	- 0 0. 1 06 7	) 3 0. 12 1	- 0. 15 5	- 0. 04 9	0. 15 0. 01 2	0. 02 7	0. 13 4	0. 21 7	- 0 0. 0 13 2			0. 05 9	0. 13 4	0. 02 5	0. 21 9	 1 0. 19 3	0. 10 7	0. 04
		0. 00 4	0. 22 2	0. 02 6	0. 21 2	- 0. 09 9	2 0 0 0 3		0. 08	0. 16 7	0. 12 6	0. 00 5	- 0. 0 16 1 8 6	). 1 11 8	). 0 15 3 2	. 0	 5 0. 07 2	0. 01 4	- 0. 10 8	0. 14 1	0 0. 04 1		. 0. 3 1 7	0. 24 6	0. 08 4	0. 04 2	- 0. 00 8	0. 01 3	0. 0 22 0 3 6	- 0. 0. 0. 1	- 0. 1 13 1	0. 18 1	0. 03 6	0. 14 8 6	0. 0 05 1 3 1	0. 16 7 8	0. 01 3	0. 04 8	0. 0. 21 03 8 3	- 0. 15 9	- 0. 05 5	- 0. 08	0 21 0 8 0 3	0 13	0. 15 2	- 0. 1	0. 02 1	06	0. 0. 24 0. 5 6	0. 17 5	- 0. 1	0. 09 7
33	0. 12 9	0. 16 5	- 0. 14 9	02 0	0.	0. 0 24 0 6 7	0. 4 0. 0. 4	0. 12 4	- 0. 06 9	- 0. 19 4	08	04	- 0. 18 5	). (0 17 (0 5 7	) )0 0 7 1 1	6 6 6	. 0. 6 03 7	0. 02 1	- 0. 11 5	0. 29 3	- 0 0. 0 11 7 8	6 0	. 0. 1 1:	 2 0. 13 5	0. 22 3	0. 03 1	0. 00 8	9 1	0. 0 13 0 4 6	1	0. 13 1	0. 18 1	0. 18 7	0. 04 5	0. 0 10 1 5 7	0. 06 7	- 0. 04 5	0. 00 3	0. 0. 21 01 9 2	0. 13 5	0. 04 9	0. 04 9	0. 0 24 0 5 7	0. 0. 0. 5	3   - 0. 21 1	0. 14 4	17		0. 18 0. 4 0. 2	- 0. 5 17 6	0. 03 4	0. 13 4
34	0. 12 9		07	- 0. 00 9	10	0 21 0 9 0 7	0.00		0. 04 1	0. 21 8	0. 02 9	0. 05 3	- 0. 0 11 0	).   - 0.   0 01   2 7	22	3 0 0		0. 13 3	- 0. 09 8	0. 18 3	0. 0 10 0 7 5	.   - 0   0 0 0 4	9 10 4	0. 05 4	0. 13 3	0. 13 9	0. 18	02 1	0. 18 2	0. 2 18 7	3 0. 05 1	0. 11 2		0. 11 1 8	0. 0 05 1 8 1	0. 5 12 1	01	- 0. 15 9	0. 15 6 9	0. 04 2	- 0. 13	- 0. 19 8	- 0 0. 0 15	0. 0. 00 2		0. 05 9	0. 16 7	0. 16 8	- 0. 0. 10 2			0. 01 9
35	0. 12 9	0. 19 6	0. 09 6	0. 04 8	0. 13 2	 0. 0 10 0 8 7	0.17 5	0. 7 13 4	0. 11	14	00	0. 22 7	0. 03 7 1	). (C) 11 (C) 7 1	). 0 )1 1 6	. 0 0 4 5	 1 0. 01 9	0. 09 5	0. 10 1	0. 15 2	0. 0 00 2 5 8	. 0. 0 20 7	0.00	- 6 0. 15 4	0. 04	- 0. 04 5	- 0. 22 9	0. 05 8	 0. 0 21 0 1 7	0. 13 14 2	0. 18	0.	- 0. 03 9	0. 10 4	- 0 0. 0 01 5	0. 07 25 5	04	- 0. 18 7	0. 11 0. 5 20 5	0. 11 7		06	 0. 0 14 1 7 3	8 0.	3 2		18	0. 14 7	- 0. 0. 0. 09 5	3 0. 20 4		0. 08 8
36	0. 12 9	0. 14 1	0. 15 7	0. 07 4	0. 01 5	- 0. 0 18 0		0. 10 3	- 0. 12 7	0. 14 4	- 0. 11 5	- 0. 17	0. 05 1	). 17 (8	0   7	7 0	 2 0. 05 7	- 0. 05 5	- 0. 10 9	0. 12 8	0 14 0 8 0 6	7 0.20	 6 0. 1	- 0. 9 02 7	0. 07 2	0. 18 4	- 0. 08 7	0. 08 9	0. 1 10 6	0. 7 18 7 7	3 0. 05 1	- 0. 11 1	0. 12 2	0. 06 2	0 05 0 9 0 1	0. 0. 24 7	- 0. 17 7	0. 06 5	0. 0. 11 12 4	0. 23 3	0. 00 3	0. 11 1	- 0 0. 0 05 7 9	0. 0. 1 0. 5	3 0. 21	0. 14 4	0. 15 5	0. 05 2	0. 0. 19 0: 2 6	0. 19 3	- 0. 10 7	0. 04

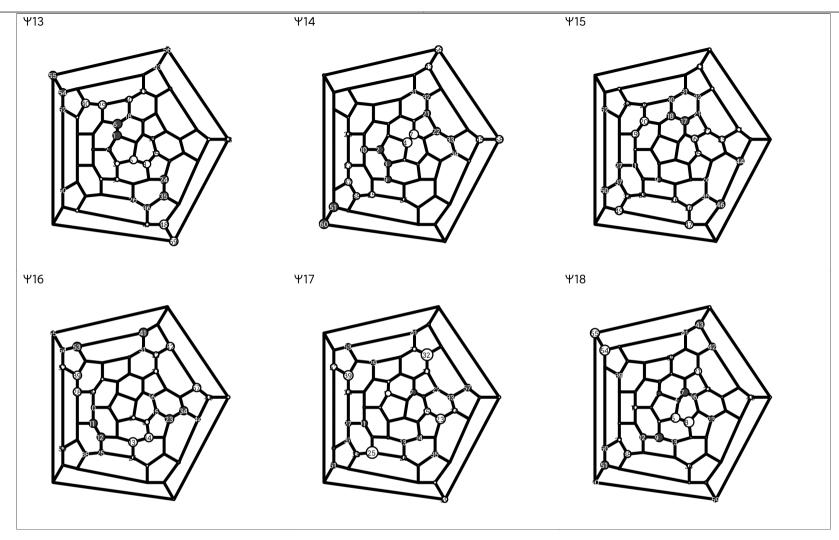
	Ps i 1	Ps i 2	Ps I	Ps Ps	s Ps	Ps i 7	Ps i		Ps Ps i i 10 11			Ps i 14		Ps 1 i 16 1	Ps   Fi	Ps Ps i i .8 19	s Ps	Ps i 21	Ps i 22	Ps   P   i   23   2	Ps P i i 4 2	s P	s Ps i 6 27	Ps i 28	Ps i 29	Ps i 30	Ps   1 i 31   3	Ps P i i 32 3.	s Ps i 3 34	Ps i 35	Ps i 36	Ps P i i 37 3	Ps Ps i i 8 39	S Ps i 40	Ps   F   41   4	Ps Ps i i 2 43	Ps i 44	Ps F i 45 4	Ps Ps i i 6 47	S Ps i 48	Ps i 49	Ps i 50	Ps i 51	Ps I i 52 5	Ps Ps i i 53 54	Ps i 55	Ps 1 56 5	Ps Ps i i 57 58	s Ps i 3 59	Ps i 60
37	0. 12 9	- 0. 11 5	0. 0 15 1 7	) 1 0. 21 2	0. 18 5	0. 05 4	- 0. 01 7	). )3 ( 5	0. 0. 02 05 7 7	0. 21 5	0. 01 1		0. 16 2			0 - 0 0. 10	9	5		03   9	6	 0 0. 2. 1	3 5	05	09		1 (	- 0. 0. 0' 09 2	7 0. 01	0. 13 1	- 0. 18 1	- 0. 0 02 2 3 6	. 0. 1 16	6 6	- 0 0. 1 08 3 9	 1 0. 18 7	- 0.	0. 0 21 0 1 9	. 0. 9 03	-	0. 12	- 0.	-	0. 08	). 0. 15 12	- 0.	0. 21 3	0. 17 07 6		0. 13 4
38	12 9	0. 03 6	0. 0 19 1	). 1 0. 27	0. 04 4	0. 01 2	0. 05 3	). )2 8	).   - 0.   0. 02   16 4   1	0. 15 3	0. 04 8	0. 18 6	0. 11 6	- 0. 12 8	). 0 14 1 5 4	0. 9 0. 9 4	0. 16	0. 08	0. 10 2	0. 0. 02 5	4 0 1 2	0. 08 3	8 0. 05 9	0. 01 5	0. 26 7	0.	0. 02 8	0. 0. 0. 21	7 0. 01 1	0. 13 1	0. 18 1	- 0 0. 2 12 1 9	0. 0 12 7	0. 02 9	0. 0 09 2 8 7	0. 06 5	0. 05 3	- 0. 12 4	0. 1 12 7	0. 16 9	0. 09 7	0. 16 9	0. 18 4	0. 03 6	0. 05 04 2	0. 01 3	0. 24 8	). 0. 0. 05 17 3 5	7 I	- 0. 09 7
39	12	0. 21	0. 00 5	0. 07 1	0. 08 7	0. 20 7	- 0. 07	0. 12 7	0. 0. 02 12 6	0. 18 5	0. 08 4	0. 06 4	0. 01 7	0. 0 23 2 5 1	). 26 0 1 1 8	0. 16 5 4	0. 09 5	l-	0.	0.  - 04  0	0 0 8 3	$\begin{bmatrix} 0 \\ 2 \end{bmatrix}$	.  - 7  0.	l_	0	- 10	o I-	0. 0. 13 6	-	0	- 0.	 0. 0 19 1 9 6	- 0.	-0	- 0 0 1	.  -	-	0. 07 1 9	2 0. 15	0. 01 2	0. 04 8	0. 00 3	0. 18 3	0. 15 2	0. 18	0. 16 3	- (0 0. (0 05 5		10	0. 01 9
40	12 9	0. 20 4	- 0. 07 8	0. 04 14 3	1 0. 08 3	0. 18 7	- 0. 0. 01 6	). 14 ( 7   1	0. 0. 10 09 3 4	0. 17 5	0. 22 9	0. 02 6	0. 11 7	4 (	). 0 0. 0 04 0 8 8	0. 0. 09 9	0. 33 1	0. 09 2	08	0 0. 05 5	. 0 5 0 5	 1 0. 00 9	0 01	0. 17	0. 16 4	0. 16 5	0. 14 4	 0. 0. 16 04 4 7	4 13	0. 18	0. 0	0. 27 0 7 0 7	0. 0. 0. 0. 0. 2	0. 06 8	0. 01 0 1 4	9   00	0. 11 1	- 0. 05 05 6	0. 20 8	0. 10 8	0. 14 4	0. 16 9	0. 18 4	0. 03 6	).   -   0.   0.   22   2	0. 11 4	- (0 0. (0 05 2	0. 03 1 4	2	
		09	- 0. 18 9			0. 03 9	- 0. 13 2	0. 09 7	0. 0. 11 13 9	0. 13	0. 05 1	0. 06 1	0. 04 2	0. 24 2	). 0 13 1 3		0. 05 6	0. 08 1	0. 15 1	0. 11 7 0 8	0 2 6	. 0. 5 00 6	0. 19 5	0. 06 8	0. 06 7	0. 19	0. 05 2	0. 12 9 5	7 0. 10 5	0. 16 3	0. 11 2	0. 0 14 0 2 6	4 2	7 0. 00 6	0. 23 6 3	3 0. 18 4	0. 12 3	0. 16 6	0. 3 15 9	0. 16	06	0. 01 4	0. 14 4	- 0. 0 14 1 2	). 0. 16 20 2 9	0. 05 5	- 0. 12 7		07	0. 16 1
42	0. 12 9		- 0 0. 0 21 8	).   -   0.   10   3	0. 03	0. 21 5	- 0. 12 6	0. 09 8	0. 0. 06 11 4	0. 17 8	- 0. 08 9	0. 02 6	0. 09 2	0. 22 3	) )5 0 6 1 1	0. 0. 0. 2	2 0. 0. 05 2	0. 05 1	0. 17 7		0 1 6	.  -	- 0.	-	- 0.	0.	- 0.  -	 0. 0. 09 04 4 7	0. 18	0. 13 2	0. 0	0 0. 0 09 2 3 7	6 2	0. 05 7	0. 0 0 0	0. 18 7	0. 10 7	- 0. 06 8	6 0. 17 2	0. 08 2	0. 12 4	0. 16 3	0. 18	0. 02 3	). 08 0. 5 14 5	0. 13 7	0. 16 2			- 0. 19 7
43	12 9	0. 01 6	- 0 0. 1 19 4	) 1 0. 01 8	- 0. 1 14 9	0. 16 7	- (0 0. (1 18 1 1	). )1 (	0. 0. 14 02 2	0. 17 1	- 0. 11 1	0. 18 4	0. 13 8	0. (0. (0. (0. (0. (0. (0. (0. (0. (0. (	$\begin{bmatrix} 0 & 1 \\ 0 & 2 \\ 0 & 2 \end{bmatrix}$	117	7 0.	19	00	0 0. 00 4	8 0 6	. 0. 5 1 1	- 1 0. 14 5	0. 05 2	0. 13 3	0. 17 3	- 0. 17 3	0. 12 0 1 1	0. 12 2	0. 04 9	0. 18 1	0. 0 13 1 2 5	5 0. 19 6	0. 02 3	0. 0. 0 05 1 4 4	. 0. 0 19 2	- 0. 04 7	- 0. 06 9	0. 4 25 2	- 0. 05 9		0. 18	0. 14 3	0. 01 8	0. 11 7	- 0. 14 9	0. 01 2	06 02	0. 01 1	0. 22 2
44	0. 12 9	0. 20 2	- 0. 06 4	0. 07 18 3		0. 07 5	0. 07 7	0. 09 4	12   17	0. 04 4	0. 04 9	0. 07 4	0. 20 7	- 0. 12 6	). 0 03 0 3	0. 05 02 3	2 0. 20 8	0. 03 7	0. 16 6	0. 18 0 1	2 0 2 2 2	0.09	0. 9 11 1	0. 18 5	0. 14 4	0. 08 7	- 0. 13 6	0. 02 7 02 17 5	7 0. 10 5	0. 16 3	- 0. 11 2	0. 23 8 0 4	0. 12 66 4	2 0. 00 9	- 0. 08 4	. 0. 7 07 4	0.	0. 01 0 9	0. 2 00 9	0. 28 3	0. 04 3	0. 01 4	0. 14 4	- 0.   0 14   1 2	). 0. 16 07 2 5	0. 23 8	0. 01 8	) 06 0. 2 13 8		0. 10 2
45	12	0. 15 3	- 0 0. 1 12 1	0. 1 13 7	0. 16 2	0. 19 5	- 0. 02 8	0. 00 8	 0. 0. 01 21 5 9	0. 04 1	0. 08 6	0. 19 6	0. 07 8		0 0. 1 07 9 2	) 1 0. 1 14 1	0. 10 7	0. 03 3	0. 15 8	0 16 0 2 3	. 0 1 0 9	- 0. 3 0: 6	0. 09 3	0. 12 4	0. 00 3	0. 23 7	- 0. 2 00 2 7	0. 21 0'	7 0. 12 2	0. 04 9	0. 18 1	- 0 0. 1 03 3	6 0. 21	0. 02 4	0. 08 0 5 1	. 0. 6 14 7	0. 04 8	- 0. 0. 23 0 8	0. 4 01	0. 14 1	0. 07 1	-	0.	u. Tu	).  4   0.	0.	0. 05 7	0. 03 06 0		- 0. 18 5
46	12	0. 19 5	0. 0 03 1 5	0. 0 17 5 8	0. 01 5	0. 01 5	0. 21 8	0. 05 ( 8 [	0. 0. 11 17 5	- 0. 06 9	0. 04 4	0. 03	0. 23 6	- 0. (0 09 (8	). 0 0. 0 02 0 3 7	0. 0. 02 06 1	- 0. 18 2	0. 10 1	0. 19	0 0. 2 09 8	2 0 0	0. 2 7 8	- 1 0. 07 8	0. 12 3	- 0. 04 7	0. 11	0. 04 7	0. 03 23 7	- 0. 1 10 5		0. 11 2	 0. 0 10 1 4	- 0. 9 00 1	0. 16 4	 0. 0 09 0 7 4	0. 20 1	0. 06 5	0. 16 8 0 2	0. 12 4 5	2 0. 12		0. 18	0. 14 3	0. 01 8	0. 11 7 8	0. 21 1	0. 00 1 1	0. 0. 13 11 8		0. 10 2
47	0. 12 9	0. 10 6	0. 0 13 1 8	) 4 0. 3 05 9	- 0. 08 8	0. 00 7	0. 26 6	0. (0. (1. (1. (1. (1. (1. (1. (1. (1. (1. (1	0. 14 16 6	- 0. 00 1	0. 10 7	- 0. 05 7	0. 22 6	0. 02 8	). 0 0. 0 04 8 6	0. 06 15	5 0. 05 3	0. 12 8	0. 14 2	0. 0 08 2 2 1	0 0 0 2	8 0. 0′	0. 26 4	0. 08 7	0. 03 7	0. 00 5	0. 09 1 7	0. 14 1 4	- 4 0. 01 7	0. 21 2	- 0. 06 9	0 02 0 3 0 9	5 00	0. 21	0. 18 7	. 0. 6 04 5	0. 21 1	0. 00 8	0. 3 08 3	0. 09 8	0. 11 1	0. 14 9	0. 03 4	0. 08 0 9 1 8	0. 0. 18 07 3 7	0. 03 9	0. 0. 0 17 1 6 8	6 10	0. 19 5	0. 02 4
48	0. 12 9	0. 13 9	0. 0 05 1 7	). (().	-	10	0. 25 1	- 1-	).   19 0.   19 08   2	1-	6	06	04	- 0. 00 8	) 08 0 3 0 5	- 0. 0. 19 06 4	5 06	0. 16 5	0. 12 6	0 0. 0 27 5	0 0 4	7 0. 0. 9	1 00	0. 14 9	0. 12 8	0. 21	0. 07 1	0. 18 0. 8 0. 9	- 0. 9 19	0. 08	10.	- 0 0. 2 06 8 4	0 0.	0. 14 8	- 0. 0. 04 1 5	0 17		0 0. 0 08 0 5 5	. 0. 7 25 8	0. 02 8	05	0. 16 3	0. 18	0. 02 3	0. 08 01	0. 15 5	0. 08 2		0.	0. 07 8
49	12	01	0. 0 14 1 8 7	) .6 0. 21 8	0. 00 8	0. 04 8	0. 16 2	). ( ). ( )8 ( 5 (	 0. 0. 09 07	0. 18 9	0. 09	- 0. 07 8	0. 22 7	0. 02 02 8	). 0 0. 0 06 2 1	0. 0. 2. 2. 2.	0. 07	0. 07	0.	0. 04 0	. 0	0. 10 0 6	0. 5 19 5	0. 02 3	0. 03 3	0. 12 7	 0. (0 17 1 4 2	0. 0. 10 0. 2 7	0. 01 7	0. 21 2	0. 06 9	0. 15 0 5 1 3	0. 0. 9 6	0. 12 8	0. 04 8	. 0. 9 04 6	- 0. 09 4	 0. 0 04 0 3 9	0. 12	0. 24 2	- 0. 06 2	0. 15 2	- 0. 14 7	0. 01 1 7	0. 14 03 7	0.00	0. 17 6	0. 18 10 7	- 0. 19 5	0. 02 4

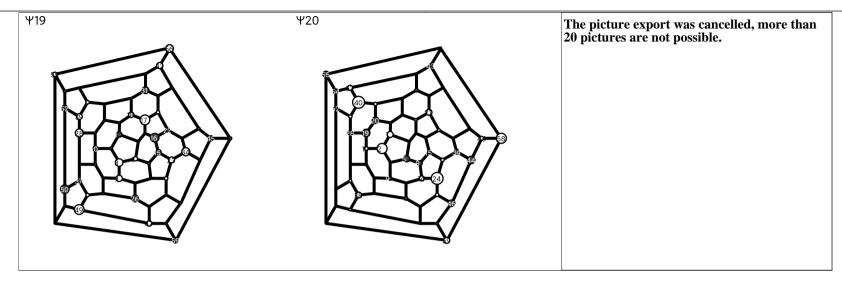
	Ps i 1	Ps i 2	s Ps	Ps i 4	P	s Ps i 6	Ps i 7	Ps i 8	Ps i 9	l i	Ps i 111	Ps i 12	Ps i 13	Ps i 14	Ps i 15	Ps i 16	Ps i 17	Ps i 18	Ps i 19	Ps   1 i 20   2	Ps I i 21 2	Ps P i i i 2		Ps i 25	Ps i 26	Ps i 27	Ps i 28	Ps i 29	Ps i 30	Ps   1 1 31   3	Ps   F   1   1   1   1   1   1   1   1   1		Ps Ps i i 4 35	Ps i 36	Ps i 37	Ps i 38	Ps   1	Ps I i 40 4	Ps P i i l1 4	s Ps i 2 43	Ps i 44	Ps i 45	Ps I i 46 4	Ps   F i   7   4	Ps   Pi	Ps Ps i i 9 50	Ps i 51	Ps i 52	Ps i 53	Ps   I i 54   5	Ps I i 55 5		Ps Ps i i 7 58	Ps i 59	l i l
50	0. 12 9	- 0. 11 6		0. 16 7	- 0. 16	0. 13 5	- 0. 18 3	0. 03 8	- 0. 06 9	- 0. 09 4	13	0. 15 1	- 0. 11 3	- 0. 05 7	- 0. 19 4	4	- 0. 09 7	- 0. 15 8	0. 23 8	- ( 0. 1 06 1 4	). 15 0 1 0	0 1 3	. 0. 1 05 6	0. 12 2	0. 10 8	- 0. 06 7	0. 17 6		0. 06 3	0. 18	0 08 0 9 0 8	- 0 9 0 7	0. 1 21 2	0. 06 9	- 0. 02 8	0. 03 6	19	). (1 14 1 1	0. 5 0	0. 20 1	- 0. 09 8	- 0. 22 9	0. 09 1 1	). 0 2 0 5 1	) 06 0 0 2	0. 18		0. 01 8	0. 11 7	0. 09 5	) 08 0 1 3	0. 1. 1. 6.	9 0. 11	0. 15 4	- 0. 11 9
51	-	0. 03 8	0. 08 8	0. 20 2	0. 10 4	0.06	- 0. 11 5	0. 05 4	0. 19	0. 01 8	0. 11 3	0. 19 2	0. 01 4	0. 25 2	0. 01 3	0. 05 5	0. 16 3	- 0. 22	0. 02 8	0. 04 15	). 0 13 1 5 2	5 3	5 0. 07	0. 05 5	0. 08 8	0. 08 4	0. 11 6	0. 21	0. 10 4	- 0. 04 5	0. 08 0 3 2 3	0 0	0. 0	0. 22 4	- 0. 09 7	0. 11	- 0. 19 6	) 01 0 5 1 3	0. 0. 5 13. 7	0. 17 5	0. 02 2	0. 18 5	0. 00 4	0 1 .5 4	). 2 0 1 6	0. 0 01 4	0. 14 4	0. 14	0. 16 2	0. 05 05 2	). 0. 03 0 2	0. 0. 0. 0. 2.	0. 00 5	0. 21 6	0. 05 9
52			0. 01		0. 00 7	0. 06	- 0. 25 2	0. 12 5	0. 00 4	0. 16 3	0. 07 7	0. 13 2	0. 15	0. 03 8	- 0. 15 4	0. 13 7	0. 17 9	0. 04	0. 15 9	0. 1 10 1 2	) 17 0 1 0 9	0 0	. 0. 1 14 3	0. 17 1	0. 07 7	0. 02 8	0. 27 7	0. 00 8	0. 00 5	0. 0 17 0 1 3	0 0. 1 00 5	. 0 4 0 7	0. 1 21 2	0. 06 9	0. 15 6	0. 05 9	0. 10 7	0. 0. 20 4	0. 04 02 5	0. 07 3	0. 21	0. 02 5	0. 0 24 0 3 6	08 1	0 0 0 6	0. 16 3	0. 18	0. 02 3	6	07   1	).   0 10 13   5 5			0. 15 4	0. 11 9
53	0. 12 9	- 0. 15 7	0. 12	10	0. 08 1	8 0. 17	- 0. 14 7	-0	0.	- 0.	0. 00	-	0. 04	0. 01 3	0. 08	- 0.	-	0. 06	- (	0. (0 14 (0	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$		0 0 07	-0	- 0.	-0	-0	0. 03	0. 11	0. 00 00	.  _	0 1 1 5	 0 0.	0. 11	l_	0. 03	0. 16	.  - 0.  0	0	-	0. 07	_ (	0. 02 -	0 1 1 1		3 0	- 0. 14 7	0. 01 1	0. 14 7	0. 20 2 8	). 1 0. 1 01 9	) 0 0 1 6	1 13	0. 07 3	
54	12 9	0. 13 4	0. 06 5	0. 16 7	0. 06 6	- 6 0. 07 5	- 0. 19	0. 18	0. 06 7	- 0. 07 9	0. 03 1	0. 20 7	0. 20 7	0. 06 6	- 0. 02 9	0. 13 6	0. 01 5		0. 08 6		) )3 0 ) 0 5	5 1	. 0. 6 11 7	0. 04 4		0. 14 1	0. 04	0. 21 2		- 0. 19 6	0. 04 0 3 0 8	9   7	9 08	0. 06 9	0. 02 4	0. 01 3	- 0. 24 2	). 13 0 7 0 4	7 14	- 0. 14 7	- 0. 08 9	0. 19 9	0. 07 1 2	). 0 .6 .6 .5	). 0 0 0 8	0 9	0. 03 4	0. 08 9	18	- 0. 08 5 8	). 10 5 0	9 5	0. 9 01 7	0. 14	
55		0. 04 5	- 0. 07 1	0. 20 7	0. 06 4	- 6 0. 06 6	0. 04 1	- 0. 14 7	0. 22 8	0. 19 5	0. 02 5	- 0. 10 6	- 0. 21 9	- 0. 07 9	0. 02 6	- 0. 11	0. 00 1	0. 25 1		0. (17 1 2 9		$\frac{1}{2}$	5 6	0. 07	0. 07	0. 16 2		0. 15 3	0. 07 9	0. 0. 0.	0. 0 05 0 4 5	8 0 1 7	- 0. 9 08		- 0. 06 5	0. 10 7	0. 04 5	0. 0 17 1 3 4	0. 8 0. 4 0. 1	0. 16 2		0. 10 2			). 0 .6 1 .6	0. 01 8	0. 03 5	- 0. 21 1	0. 14 4	5   1			. 0. 0 01 7		0. 17 3
56	0. 12 9		0. 13 2		0.08	8 0. 07 7	0. 13 1	0. 15 8	- 0. 17	0. 21 1	0. 07 5	0. 00 4	- 0. 13 5	0. 20 1	0. 08 3	- 0. 03 5	- 0. 01 4	0. 07 9	0. 21 2	0. 00 1	). 0 16 0 2	0 1 8	. 0. 1 15 4	0. 18 6	0. 17	0. 13 9	0. 09 2	0. 13 5	0. 09 1	0. 16 9	0. 0 05 1 2 7	. 0 3 1 2	2 0. 2 04 9	0. 18 1	0. 06 2	0. 11 2	0. 18 1	). 0 0. 0 08 1 1 6	0. 13 6 6	3 0. 09	0. 08 4	0. 00 6	0. 0 21 0 6 7	0 1 07 3	0. 7 0 3	0. 18 3	0. 03 8	0. 08 2	0. 15 8	- 0. 15 7	). 19 0 0	0 7	0. 7 02 8	- 0. 01 1	0. 22 2
57	0. 12 9	0. 12 9	2 0.	0. 04 8	- 0. 00 6	0. 16	0. 19 8	0. 08 7	0.	- 0. 11 2	19	0. 02 7	0. 03 3	0. 02 5	0. 12 1	0. 22 4	- 0. 17 8	0. 00 3	0. 08 1	4   1	). 0 13 0 3 1	0 0 14 1 4	. 0. 9 20 7	0. 10	0. 05 3	0. 12 2	- 0. 04 7	- 0. 24 9	0. 03 8	0. 18 7	0 11 0 3 0 8	4 1	0. 13 8 2	0	- 0. 04 7	0. 04 6	0. 24 6	) )7 () 4 1 4	0. 1. 1. 2.	9 0. 02 3	0. 11 2	0. 19 1	- 0 0. 0 16 2	0. 08 0. 7	) )0 0 ' 1 9	0. 14 1 9	0. 03 4	0. 08 9	0. 18 8		).   - 0.   0 13   1 3   7	0. 0. 5	0. 3 09 1	- 0. 05 5	0. 19 7
58		0. 08 9	- 0. 09 8		0. 13 9	0. 03 9	0. 17 5	0. 03 7	- 0. 17 5	0. 21 4	0. 03	- 0. 05 8	0. 11 9	0. 20 8	0. 03 5	0. 09	0. 07 5	0. 06 3	0. 08 3	0. 28 1	). 0 12 0 9	0 14 7	 7 0. 02 6	0. 06	- 0. 07 6	0. 06 9	0. 15 5	0. 10 3	0. 19 5	0. 05	 0. 0 17 1 7	3 2	2 04	18	- 0. 14 8	19	08 0		) 08 0. 5 1. 4		0. 07 8	0. 17 5	0 20 0 3 0 5	0   7	0 0 0 7	4 16	18	0. 03	0. 05 6	7   2	). 0 22 0 2 6	0 7	7 0. 03	0. 12 2	
59		0. 08 3	0.			0. 00 4	0. 07 7	0. 09 3	0. 24 1	0. 19 3	0. 08 9	- 0. 06 8	0. 23 4	07	- 0. 05 9	0. 05 5	2	13	0. 15 4	6 (	). 1 )6 4	7 0 1 4	0. 03 0 3	0. 08 7	- 0. 16	- 0. 18 9	0. 12 8	- 0. 06 9	0. 02 5	0. 15 4	- 0 0. 0 13 6	8 0 1 7	0. 9 08	- 0. 06 9	0. 16 4	0. 02 2	0. 14 8	). 18 2 0 1	0. 10 3 8	0. 00 6	- 0. 14 8	0. 03 9	- 0. 07 8	0. 20 0 7	).  -  06  1	7 0. 7 00 3	0. 18 3	0. 15 2	1	- 0. 04 7	) 14 0 7 0 3	3 2	0. 01 9		- 0. 07 8
60	0. 12 9		0.	0. 22 4	0. 00 1		0. 03 4		0. 28 7	0. 22 3	0. 00 1	0.	0. 00 1	0. 25 8	0. 01 4		0. 00 2	0. 10 4	0. 00 7	0. 0 04 3 6 8	). 0 35 3	0 0 0 5	0. 0.5 0 9	0. 07 2	0. 00 4	0. 18	0. 22 5	0. 01 7	0.		0. 0 00 2 1 4				0. 00 1	01	0. 00 2 2	). 0. 28 3	0. 0.	0. 00 5	0. 22 4	0. 02 7	0. 0 01 0 5 4		0 2 01 6	0. 8 0	0. 00 2	0. 25 1	0. 05 9	0. (	0. 0	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	5 0. 00 2	0. 21 6	- 0. 05 9

### 2.2. Molecule orbital presentation:









## 3. Bond Order

### 3.1. Calculated values:

	1	2	3	4	5	6	7	8	9	10	11	12	13	1	4 1	5 1	16	17	18	19	20	21	22	2 2	3 2	4 2	5 2	6 2	27 2	28	29	30	31	32	33	34	35	36	37	7 38	3 3	9 4	0 4	41	42	43	44	45 4	46	47	48	49	50	51	52	53	54	55	56	57	58 5	59 6	0
1	1. 0																																																														
2	0. 47 6	1. 0																																																													
3	0. 05 1	0. 47 6	1. 0																																																												
4	0. 47 6	0. 05	0. 05	1. 0																																																											
5	0. 05 1	0. 05 1	0. 47 6	0. 47 6	1. 0																																																										
6	0. 60 1	0. 01 6	- 0. 09 7	0. 01 6	- 0. 09 7	1. 0																																																									
7	0. 01 6	- 0. 09 7	- 0. 09 7	0. 60 1	0. 01 6	- 0. 21 3	)																																																								
8	- 0. 09 7	0. 09 7	0. 01 6	0. 01 6	0. 60 1	0. 04 3 2	). 21																																																								
9	- 0. 09 7	0. 01 6	0. 60 1	- 0. 09 7	0. 01 6	0. 04 03 3	).  - )4   ( 3   2	). 21 3	1.																																																						
10	0. 01 6	0. 60 1	0. 01 6	- 0. 09 7	- 0. 09 7	- (0 0. (2 21 3	). ( )4 ( 3	). )4 ( 3 (	). 21 3	1. 0																																																					
11	0. 02 8	0. 01 6	0. 21 3	0. 04 8	0. 03 5	0. 0 03 0 5 2	). ( )1 8	). )9 3	). )1 5	0. 47 6	1.																																																				
12	0. 03 5	0. 21 3	0. 01 6	0. 04 8	0. 02 8	0. 09 0 8	). ( )1 ( 5	). ). )3	). 47 5	0. 01 6	0. 60 1	1. 0																																																			

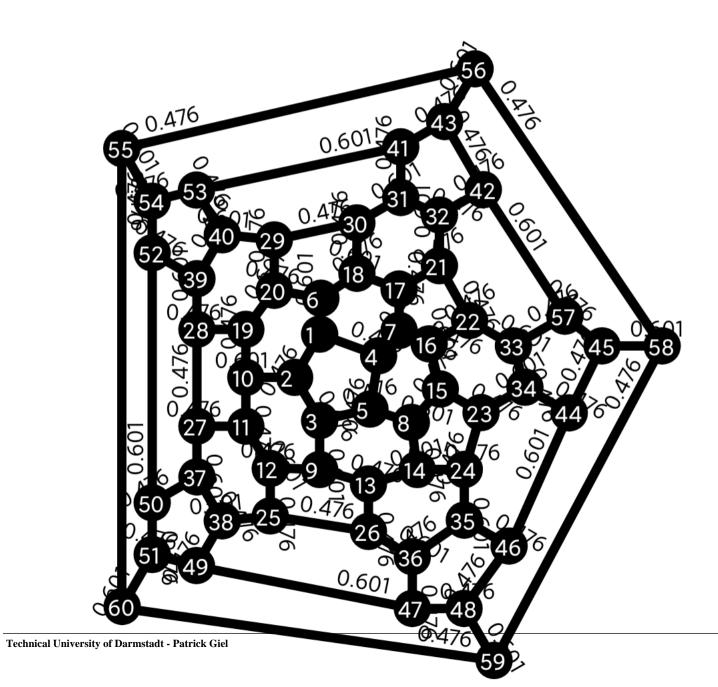
П	1	2	3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19 2	20 2	21	22	23 2	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45 4	46	47	48	49 5	50 5	51 5	52	53 5	4 5	5 5	6 5	7 51	8 59	60
	04 8 8	). (0 )2 (0 3 (6	01 0. 5 03 5	0. 3 21 3	- 0. 01 2	0. 09 8	01 6	0. 47 6	- 0. 03 5	- 0. 09 7	- 0. 05 1	1. 0																																														
	0. 04 8 0 5	). 0 03 2 5 3	0. 0. 02 21 8	0. 2 01 6	0. 01 2	0. 03 5	0. 47 6	0. 01 6	0. 09 8	0. 04 3	- 0. 09 7	0. 60 1																																														
15	- 0. 03 5	). 0 04 0 8	) )2 0. 3 21 3	0. 01 1 6	0. 09 8	0. 01 6	0. 47 6	0. 03 5	0. 01 2	0. 00 6	0. 00 2	- 0. 09 7	0. 05 1	1. 0																																												
16	02 8	)4   0 3   0 5	0. 0. 01 03 6	1 0. 21 3	0. 03 5	0. 47 6	01 6	09 8	0. 01 2	0. 05 2	0. 00 6	0. 04 3	0. 09 7	0. 60 1																																												
17	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	). 0 0. 0 03 8	0. 04 01 6	0. 02 8	0. 01 6	0. 47 6	0. 03 5	0. 01 2	0. 09 8	0. 00 6	0. 05 2	0. 00 6	0. 00 2	0. 09 7	0. 05 1	1.																																										
18	0. 01 6	). 0 02 0 8	) 04 0. 3 21 3	0. 03 5	0. 47 6	0. 01 6	0. 09 8	0. 01 2	0. 03 5	0. 00 2	0. 00 6	0. 05 2	0. 00 6	0. 04 3	- 0. 09 7	0. 60 1	1.																																									
19	- 0. 21 3	). 0 )1 0 6 8	).  - 02   0. 03 5	0. 04 8	0. 01 6	0. 09 8	0. 01 2	0. 03 5	0. 47 6	- 0. 05 1	- 0. 09 7	0. 00 2	0. 00 6	0. 05 2	0. 00 6	0. 04 3	0. 09 7	l. )																																								
20	0. 01 6 2	).   - 0.   0 21   0 3   5	0. 0. 02 03 8	0. 04	0. 47 6	0. 03 5	0. 01 2	0. 09 8	0. 01 6	- 0. 09 7	0. 04 3	0. 00 6	0. 05 2	0. 00 6	0. 00 2	0. 09 7	0. 05 1	). 1 50 1	l. )																																							
	- 0. 03 5	0. 0	).  - 03   0. 09 7	0. 04	0. 02 8	0. 05 1	0. 04 8	0. 02 8	0. 00 6	0. 02 9	0. 00 2	0. 02 8	0. 03	0. 09 7	0. 05 1	0. 47 6	0. 01 6	). (). (). (). (). (). (). (). (). (). (	). )4 )3	l. )																																						
22	0. 04 8	0. 000	) 00 0. 2 09 7	0. 03 5	0. 04 8	0. 05 1	0. 02 8	0. 00 6	0. 02 8	0. 00 2	0. 02 9	0. 01 2	0. 04 8	0. 01 6	0. 47 6	0. 05 1	-   - 0.   0 09   0 7   8	). 0. 02 3	). )3 6	17 ( 5	1.																																					
23	0. 00 2	). 03 8	).   - )4   0. 3   03	- 0. 3 09	0. 00 6	0. 02 8	- 0. 05	0. 04 8	0. 02	- 0. 02	0. 03	- 0. 09	- 0. 05	0. 47 6	0. 01 6	0. 04 8	0. (0. (0. (0. (0. (0. (0. (0. (0. (0. (	). 00 00 2	). )2 () 5	). ( )3 ( 5 (	). 21 3	1.																																				
24	0. 03 03 2	).  - 00   0 2   0 5	0. 0. 02 03 8	- 4 0. 09 7	0. 02 8	0. 04 8	0. 05 1	0. 02 8	0. 00 6	0. 01 2	0. 04 8	0. 01 6	0. 47 6	0. 05 1	- 0. 09 7	0.	0. 02 8	) )2 ( ) 9 ( 2	). (0 )0 2 2	). )0 2	). )3 5	47 (6 6																																				
25	0. 00 2 5	). 0 03 0 5 7	0. 0. 03 7	0. 04 8	0. 00 6	0. 02 8	0. 04 8	0. 05 1	0. 02 8	0. 01 6	0. 47 6	0. 05 1	- 0. 09 7	0. 03	0. 02 8	0. 00 2	0. 02 9	).  - )4   0 3   0 2	). ( )1 ( 2	). ( ). ( )1 (	). 00 2	0. 00 2	). )3 5	1.																																		

	1 2	2 3	3 4	5	6	7	8	9 1	0 1	1 1	2 13	3 14	15	16	17	18	19	20	21	22 2	23 2	1 25	5 26	27	28	29	30	31	32	33 3	4 3	5 3	6 37	7 38	39	40	41	42	43 4	14 4	5 46	47	48	49	50	51	52	53 5	4 5	5 5	6 57	58	59	60
	3 04	4 0 0 7	9 0.00	- 0. 03 5	0. 02 8	0. 00 6	0. 02 8 0 1	). 0 0 0 8	04 0 7	). 0 09 0: 7 1	0. 47 5	0. 7 01 6	0. 04 8	- 0. 01 2	0. 02 9	- 0. 00 2	0. 03	0. 02 8	0. 00 2	0. 0 05 0 2 5	). 0. 0. 0. 2. 3.	0. 47 1 6	7 0																															
27 0 0 8	4 0. 09 7	- 0 9 0 5	0. 03	0. 00 2	0. 04 8	0. 02 8	0. 00 6	) )2 0 3 0 1	0 4 05 6	0. 17 0 6	. 0. 1 04 8	- 4 0. 01 2	0. 02 9	0. 00 2	0. 02 8	0. 03	0. 05 1	- 0. 09 09 7	0. 00 2	0. 0 01 0 1 2	0. 0. 00 0: 2 2	0. 21 3	0. 03 5	1. 0																														
28 - 0 0 5	- 0. 3 09 7	0 0 9 8	0. 4 00 2	0. 03	0. 02 8	0. 00 6	- 0. 02 8	) )4 0 3 0 1	). 0 )5 0 . 1	). 0 05 0 7	0. 03	- 3 0. 02 8	0. 00 2	0. 02 9	0. 01 2	0. 04 8	0. 47 6	0. 01 6	0. 05 2	0. 0 00 0 2 1	). 0. 01 00 2	0. 0. 0. 5	0. 00 2	0. 47 6	1. 0																													
29 - 0 0 7	9 03	3 0 2	0. 0 04 8	03	0. 05 1	0. 04 8	- 0. 02 8	00   0	0. 02 0 8	04 0 0 0 2	0. 02 1 9	2 0. 00 2	0. 02 8	0. 03	- 0. 09 7	0. 05 1	01 6	0. 47 6	0. 03 5	0. 00 2 0	). 00 00 1	0. 0. 0. 2	- 0. 00 2	- 0. 03 5	- 0. 21 3	1. 0																												
30 - 0 0 7	0. 04 9 8	. 0 4 0	 3 0. 03 5	0. 00 2	0. 05 1	0. 02 8	0. 00 6 0 8	). 00 02 8	). 04 0	) 03 0 0 0 8	. 0. 2 0. 2 00 2	0. 02 9	0. 01 2	0. 04 8	0. 01 6	0. 47 6	- 0. 09 7	0. 05 1	0. 21 3	0. 0 03 0 5 2	). 0. 05 00 2 2	0.00	- 0. 01 1	0. 00 2	0. 03 5	0. 47 6	1. 0																											
3	4 0. 01 2	. 0 1 0 8	0. 09 2 8	0. 00 6	- 0. 09 7	0. 03 5	- 0. 05 05 6	).  - 00   0 5   0 2	). 0. 01 0. 2. 8	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	0. 0 01 3	0.00	0. 01 2	0. 04 8	0. 21 3	0. 01 6	0. 04 3	- 0. 09 7	0. 01 6	0. 02 8	0. 00 02 02 02	0.01	0.0	0. 00 6		01 6	0. 60 1																											
32 0 0 8	0. 9 00 6	 0 0 0 0	0. 04 2	0. 01 2	0. 03 5	- 0. 09 7	- 0. 01 01 2	).  - 00   0 5   0 2	). 0 05 0 2 2	0. 0. 0. 0. 3.	1 0. 00 6	0. 02 8	0. 04	- 0. 09 7	0. 01 6	0. 21 3	0. 01 2	0. 04 8	0. 60 1	0. 01 6	). 0. 09 06 6	0.0	0. 01 3	0. 02 9	0. 00 6	0. 02 8	0. 01 6	0. 47 6	1. 0																									
33 - 0 0 2	0. 1 02 8	. 0 0 2 6	0. 0 04 3	0. 09 8	0. 01	0. 09	0. 03 0	).   0 05   6	).   0 00   0 5   3	).  - )1  0 3  0	. 0. 0 01	0. 04 1 8	0.	0. 01 6	0. 09	0. 04 3	0. 00 6	0. 02	0. 01 6	). 60 (0 1 (6	).   0. )1   0. 5   8	2 0. 02 9	2 0. 00 6	$\begin{vmatrix} 0 & 0 \\ 0 & 0 \end{vmatrix}$	0. 01 3	0. 00 6	0. 09 8	0. 03	0. 21																									
34 0 0 6	0 0 02 8	. 0 2 0 2 2	0. 09 1 8	0. 04 3	0. 05 2	0. 03 5	- 0. 09 09 7	). 01 6	). 00 6	). 00 0 0 0 8	0. 04 2	4 0. 09 7	0. 01 6	0. 21 3	0. 04 8	0. 01 2	0. 01 3	0. 00 2	0. 02 8	0. 01 6	0. 60 6	0. 00 6	0. 09	0. 01 3	0.	0. 02 9	0. 00 6	0. 00 2	- 0. 03 5	). 1 47 6																								
35 - 0 0 8	0. 00 2 6	. 0 0 0 8	9 0. 01 2	0.04	0. 00 6	0. 01 2	0. 0 09 0 7 5	). 0 )3 0 5 2	). 0 05 0 2 2	).   0.   0.   8   2	4 0. 21 3	01	0. 09 7	0. 04 3	0. 02 8	0. 00 6	0. 00 2	0. 01 3	00 6	), 09 (0 8 (6	)1   60 5   1	0.02	2 0. 01 6	0. 00 6	0. 02 9	0.	0. 01 3	0. 00 2	0. 05 2	). 0 )3 2 5 3	1 0																							
36 - 0 0 8	0. 2 01 2	. 0 0 1 3	0. 4 00 6	0. 09 8	0. 00 6	0. 05 2	0. 03 0 5	). 0 )9 0 ' 2	0 0 0 0 1 3	) 04 0 0 7	0. 01 9 6	0. 21 3	0. 04 8	0. 01 2	0. 00 2	0. 01 3	0. 02 8	0. 00 6	0. 02 9	0. 00 6	0. 02 0 6	0. 0. 6	0. 60 1	0. 09 8	0. 00 6	0. 01 3	0.	0. 01 1	0. 00 2	) 00 0 2 0 5	0. 4 3 6	. 1 7 0																						
37	0. 02 1	. 0 4 0 8	9 0. 02 8	0. 00 6	0. 01 2	0. 00 6	0. 05 05 2	). 0 03 0 7	). 0 0 0 6	).   - 01   0 5   2 3	0. 02 1 8	4 0. 01 2	0. 00 2	0. 01 3	0. 00 6	0. 02 8	- 0. 09 7	0. 04 3	0. 01 3	0. 0	). 02 0 6	0.01	0.02	0. 60 1	0. 01 6	0. 09 8	0. 00 6	0. 05	0. 00 2	).   - 0.   0 01   0	0.00	.   - 0   0 0 5	. 3 1. 0																					
<b>38</b> 0 0	0.09	. 0 9 0 3	 4 0. 02 8	0. 01 2	0. 05 2	0. 00 6	0. 01 0 2	). 0 09 0 7 5	). 0 03 2 5 3	0. 0. 0. 6	.   - 1   0. 0. 7	0. 04	0. 02 8	0. 00 6	0. 01 3	0. 00 2	0. 04 8	0. 01 2	0. 0	0. 01 0 6	0. 0. 00 09 5 8	0. 60 1	0. 01 6	0. 01 6	0. 02 8	0. 00 6	0. 02 9	0. 00 2	0. 01 1	). 0 00 0 2 2	0. 5 0. 5	. 0 2 3	0. 47 1 6	7 0																				

T	1	2	3	4	5	6 7	8	9	10	11	12	13	14	15	16	17	18	19 2	0 2	1 22	2 23	24	25	26	27	28	29 3	30 3	31 3	2 3	3 3	4 35	5 36	37	7 38	39	40	41	42 4	13 4	4 4	5 4	6 47	7 48	8 49	50	51	52	53	54	55	56 5	7 5	8 59	60
39	0. 09 8	0. 04 3	0. 01 2	0. 00 6	0. 02 02 8	0. 0. 03 05 2	0. 00 6	0. 01 2	- 0. 09 7	- 0. 09 7	0. 04 3	0. 02 8	0. 00 6	0. 01 3	0. 00 2	0. 01 2	04 8	0 01 0 6 2	0. 00 1 6	02	0	0. 01 3	0. 09 8	00 6	01 6	60	0. 01 6	) )2 0 3 0 5	000000000000000000000000000000000000000	0. 0. 0. 0. 2	- 0. 0 0. 1	- 0. 1 00 2	0. 05 2	0. 21 3	- 0. 03 5	1. 0																			
40	0. 04 3	0. 09 8	0. 00 6	0. 01 2	0. 02 02 7	0. 0. 09 01 2	0. 00 6	- 0. 05 2	- 0. 03 5	0. 04 8	0. 01 2	0. 00 2	0. 01 3	0. 00 6	0. 02 8	0. 04 3	0. 09 7	0. 0 21 6	0. 0. 0. 0. 0. 0. 8	0. 00 6	0. 01 3	0.	0. 00 6	0. 02 9	0. 02 8	0. 01 6	0. 60 1	) )1 0 5 2 3	). 0 21 0 3 5	0. 0. 0. 0. 2	. 0. 5 0. 2	0. 0. 01 1	0. 00 2	0. 03 5	0. 00 2	0. 47 6	1. 0																		
41				0. 00 6	0. 02 9	0. 0. 0. 0. 0. 2		0. 01 3	0. 00 6	0. 02 8	0. 00 6	0.	0. 01 1	0. 02 8	0. 03	- (0 0. (0 03 (8 5	0. 02 8	0 09 0 8 0 5	0. 0. 0. 0. 7	0. 04 8			0. 00 6	0. 01 3	0. 01 2	0. 04 3	- (0 0. (0 21 (6	). 0 )1 4 5 6	) 47 0 5 0 1	0. 0. 0. 0.5 8	. 0. 4 0.	. 0. 3 02 9	2 0. 00 2	0. 01 2	0. 02 8	ا ما	0. 01 6	1.																	
	6	0. 02 9	$\begin{bmatrix} 0.\\00\\2 \end{bmatrix}$	0. 01 2	0. 0. 05 2	00 04	00 6	0. 01 3	0. 00 2	0. 01	0	0. 00 6	0. 02	0. 09 8	0. 03	0. 02 8	0. 03 5	0. 02 8	3 01	0.	0. 04 3	0.	0. 01 3	0. 00 6	0. 00 2	0. 02	0. 04 8 0	). 0 )9 0 7 1	0 ). 4 )5 6	0. 7 0 6	 1 0. 0. 7	9 0. 9 01 2	0. 02 8	0. 02 9	2 0. 00 2	03	8	0. 05 1	1.																
43	0. 02 8	002	0. 01 1	0. 02 8	0. 00 2	0. 0. 03	0. 02 9	0.	0. 02 9	0. 00 2	0. 01 3	0. 01 3	0. 00 2	0. 00 6	0. 00 2	0. 04 8	0. 04 8	0. 00 6	) 0 0. 0 0. 7	0. 03 5	0. 01 2	0. 05 2	0. 00 6	0. 00 6	0. 05 2	0. 01 2	0. 03 03 5	). 0 )9 0 7 1	). 0 )5 0 l 1	0. 0. 0. 0. 0. 8	. 0. 2 0. 8	4 00 6	8		8	8	8	6	6																
44	0. 02 9	0. 00 2	0. 05 2	0. 00 6	0. 0 01 0 2 2	0. 00 00 2	0. 04 8	0. 00 6	0. 01 3	0. 00 6	0. 02 8	0. 09 8	0. 03 5	0. 02 8	0. 03 5	0. 03 0 8	0. 02 8	0 0 0 0 1	0. 04 01 8	- 1 0. 09 7	0. 01 6	0. 21 3	0. 01 2	0. 04 3	0. 00 6	0. 01 3	0. 00 00 2	0. 00	). 0 )3 0 8	0. 4 0. 0. 1	0. 4′ 5 6	. 0. 7 01 6	- 0. 09 7	0. 02 8	0. 01 2	0. 00 2	0. 02 9	0. 00 2	0. (0 09 (0 7 (5	). 03 5															
45	0.	01	0. 00 2	0. 02 8	- 0 0. 0 02 9	0. 0.	0.	0. 02 9	0. 0	0. 01 3	0. 00 2	0. 00 6	0. 00 2	0. 04 8	0. 04 8	0. 00 2	0. 00 6	0 01 0 3 0 2	0. 0. 0. 0. 5.	- 0. 09 7	0. 09 7	0. 03 5	0. 05 2	0. 01 2	0. 00 6	0. 00 6	0. 05 02 2	). (0 )). (0 ))1 (8	). 0 )4 0 3 8	0. 2 0. 0. 1	- 0. 5 0: 1	0. 02 5 8	0. 04 8	- 0. 02 8						). 4 21 6															
46	0.		00 6	05	0. 0. 01 2	00 6	04	0. 00 2	0. 00 2	0. 02 8	0. 03	0. 03	0. 02 8	0. 03 5	0. 09 8	0. 02 8	0. 00 6	- 0 0. 0 01 1	0. 01 2.	0. 04 3	0. 21 3	0. 01 6	0. 04 8	- 0. 09 7	0. 02 8	0. 00 2.	0. 01 3	) 00 0 5 0 8	). 0 02 0 3 2	- 0. 1 09 7	0. 0. 9 6	1 47 6	7 0. 05	0.	8 04	02 9	0. 00 2	00 6	0. 04 04 8	). 0 )9 6 3 1	0 0 6	. 1 1 0													
47	00	0. 05 2	0. 01 2	0. 02 9	0. 00 6	2	0. 00 2	0. 04 8	0. 00 6	0. 09 8	0. 03 5	0. 02 8	0. 03 5	0. 03	0. 02 8	- ( 0. ( 01 1	0.	0. 02 8	0. 0 0. 00 2	0. 02 8	0. 04 8	- 0. 09 7	0. 21 3	0. 01 6	0. 04 3	0. 01 2	0. 00 6	) )1 () 3 () 2	0 0. 0 00 9 2	0. 0.	. 0. 3 04 8	4 0. 05 1	0. 47 6	0. 09 7	0. 01 6	- 0. 01 2	0. 02 8	0. 05 2	- 10	01   0	9 0	3 0:	5												
48	0. 01 1	0. 00 2	0. 02 8	1 1	0. 02 8		0. 03	0. 03	0. 02 9	0. 00 6	0. 00 2	0. 04 8	0. 04 8	0. 00 2	0. 00 6	0. 00 3 2	0. 01 3	0. 00 00 2	0. 1 0. 0. 2	0. 01 2	0. 03 5	- 0. 09 7	0. 03 5	- 0. 09 7	0. 01 2	0. 05 2	0. 00 6	) 00 0 5 0 8	0 0. 0 02 6	0. 0 04 8	0. 4 0. 8	 2 0. 05 1	0. 05 1	0. 04 8	0. 02 8	0. 00 6	0. 02 8	0. 01 2	0. 09 0 8	). 0 )4 0 8 6	1 0 2 3	0. 4 1 6	0. 7 47 6	7 0											
49	0. 02 9	10.	0	0	$\begin{bmatrix} 0. & 0 \\ 0.5 & 0 \end{bmatrix}$	0. 01 00 3	0. 00 6	0. 04 8	0. 00 2	0. 03 5	0. 02 8	0. 03 5	0. 09 8	0. 02 8	0. 00 6	0.  - 0   ( 0	0. 01 1	0 03 0 0	0. 01	0. 00 6	0. 01 2	0. 04 3	0. 01 6	0. 21 3	- 0. 09 7	0. 04 8	0. 02 02 8	). 0 00 90 2	) )2 0 0 0 2	0. 0 02 8	2 0. 2 0. 2 2	- 0. 1 09 7	0. 01 6	0. 05 1	0. 47 6	0. 04 8	0.	0. 00 6	0. 0 05 0 2 2	0. 0. 0. 0. 0. 0. 0. 0. 0.	0 4 0 8	.   - 9   0. 0: 7	0. 60 9 1		1 0										
50	0. 05	0. 01 2		2		01	2		04 8		0. 03 5		02 8	0. 01 1	0	0. 00 6 8	0. 02 8	- 0 0. 0 03 8	9 00	01	0. 00 2	0. 02 8	- 0. 09 7	04 8	0. 01 6	0. 21 3	0. 04 04 3	). 0 01 0 2 2	). 0 01 0 2 8	0. 0. 00. 2	0.02	2 03			0. 05 1		0. 09 7	04	00 8		0 0 0 2		7	5	1	5									
51	0. 00 2	0. 02 8	0. 02 8	0. 01 1	- 0. 00 9	0. 0.	0. 02 9	0. 03	0. 03	0. 04 8	0. 04 8	0. 00 2	0. 00 6	0. 00 2	0. 01 3	0. 01 01 01 01 01	0. 00 2	0. 00 2	0. 00 6	0. 00 6	0. 05 2	0. 01 2	- 0. 09 7	0. 03 5	- 0. 09 7	0. 03 5	0. 01 01 2	). 0 0. 0 0. 6	).  - 00   0 5   0 8	0. 0. 0. 0. 0. 8	2 0.00	0. 0 04 8	0. 02 8	0. 05 1	0. 05 1	0. 02 8	0. 04 8	0. 09 8	- (0 0. (0 01 (3	). 0 04 0 8	0 0 3	.   - 4   0. 0. 5	0.01	1 0. 21 3	0. 47 1 6	0. 47 6	1. 0							$\perp$	

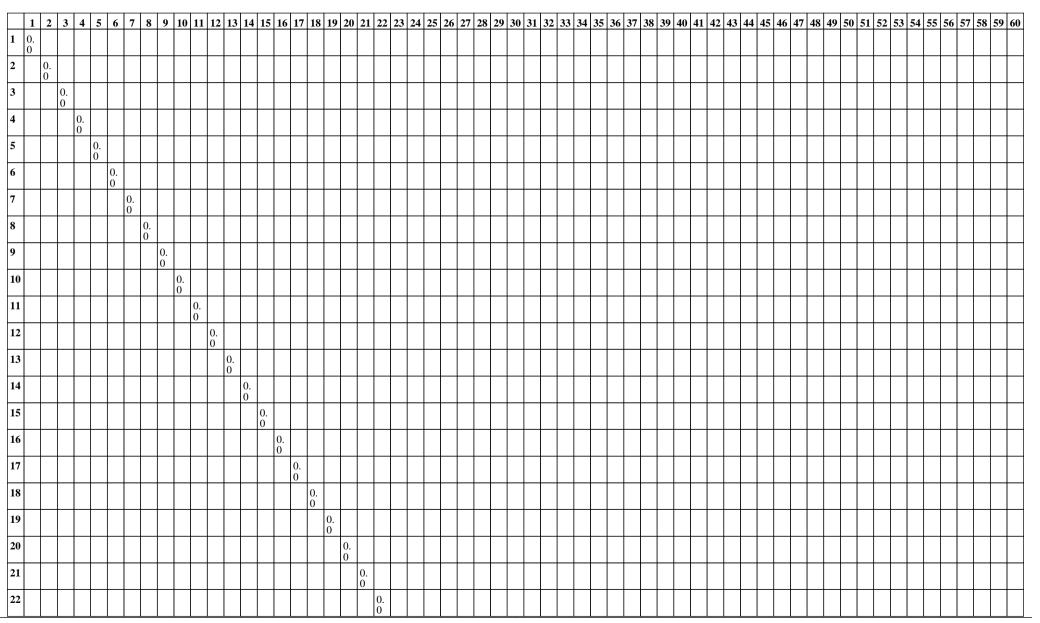
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5.	2 0. 00 6	0. 01 2	- 0. 05 2	0. 02 9	0. 00 2	0. 00 2	- 0 0. 0 00 3	. 0. 1 00 6	0 0 0 8	 4 0. 03 5	0. 09 8	0. 02 8	0. 00 6	0	). 0 01 0 1 8	0. 0.	. 0 3 0 8	 2 0. 03 5	- 0. 02 8	- 0. 00 3	). 0 )1 0 3 6	. 0. 0 04 3	- 0. 01 2	0. 21 3	0. 01 6	- 0. 0. 04 09 8	0. 4 04 8	0. 03	0. 02 9	0. 00 00 2	). 0 02 0 3 2	0. 01 01 6	- 0. 09 7	0. 47 6	 0. 0 05 0 1 7	0. 00 09 2	0. 03 5	0. 05 2	- 0 0. 0 01 6	0. 0 00 0 5 3	. 0. 4 09 8	- 0. 09 7	0. 60 1	0. 01 6	1. 0							
5.	0. 01 2	0. 00 6	0. 02 9	0. 05 2	0. 00 2	0. 04 8	0. 0 00 0 6 3	.   - 1   0. 00 2	$\begin{array}{c c} 0 \\ 0 \\ 2 \end{array}$	0 03	0. 02 8	0. 01 1	0.	0. 00 6	0 0. 0 02 8 3	) 09 0. 3 0. 5	. 0 3 0 5	0. 02 3 8	0. 04 3	- (0 0. (0 01 2	). 0 00 0 5 3	 1 0. 02 8	0. 00 2	0. 04 8	- 0. 09 7	0 01 0. 6 2: 3	0. 01 1 6	- 0. 09 7	0. 01 2	0. 02 02 8	0 0. 0 00 9 2	0. 02 04 8	0. 03	0. 05 1	0.   0 47   6 6   1	) 50 0. 09 7	0. 01 6	0. 00 6	0. 09 0 8 0 2	0 0 05 6	 0 0. 01 2	0.00	- 0. 09 7	- 0. 03 5	0. 05 1	1. 0						
54	0. 02 8	02	0. 00 2	00	0. 01 1	0. 03	0. 02 9	. 0. 02 9	2 0	3 0. 00 2	0. 00 6	0. 00 2	0. 01 3	0. 01 3	0. 0. 0. 0. 0. 0. 6.	0. 0. 00 00 5 2	0 0 8	0. 4 04 8	0. 01 2	- 0. 05 2	). 0 00 0 6 6	 0 0. 01 2	0. 05 2	0. 03 5	0. 09 7	 0. 0. 09 03 7 5	0. 02	0. 04 8	0. 00 6	0. 02 02 8	0 0. 02 6	0. 00 02 8	0. 04 8	0. 05 1	- 0. 05 1	) 01 0. 03 5	0. 21 3	0. 01 2	0. 04 0 0 0 2	0 0 0 1 8	. 0. 9 04 3	- 1 0. 03 5	0. 01 6	0. 21 3	0. 47 6	0. 47 6	1. 0					
5:	0. 00 6	00	0. 01 3	0. 01 3	0.	0. 02 8	0. 0 00 0 2 1	. 0. 1 00 2	0 0 0 8	0. 00 6	0. 05 2	0. 02 9	0. 00 2	- 0. 00 2	) 02 0 9 0 2	0. 0. 0. 0. 6	0 0 0 0 2	0. 1 01 2	0. 01 2	0. 00 6	). 0 0)2 0 8 8	. 0. 2 01 2	0. 00 6	0. 09 8	0. 04 3	0. 04 09 8	9 0. 03 5	0. 04 8	0. 00 2	0. 03	0. 0 0 0 2	0.   - 00   0. 03 5	0. 04 8	0. 09 7	- 0. 0 09 2 7 3	0. 0. 21 8	0. 01 6	0. 04 8	- 0. 09 8	) 04 0 0 5	. 0. 3 09 7	0. 02 8	0. 21 3	0. 01 6	0. 01 6	0. 01 6	0. 60 1					
50	0. 00 6	0. 01 3	0	0. 00 6	0. 01 3	0. 02 8	0. 02 02 0 8	. 0. 0 0. 1	- 0 0 0 2	0. 02 9	0. 00 2	0. 00 2	0. 02 9	- 0. 05 05 2	0 00 0 5 0 2	0. 0. 01 0. 2 2	0 0 0 2	0. 00 5	0. 04 3	0. 09 8	0 0. 01 6	0 0. 02 8	0. 02 8	0. 00 6	0. 01 2	0. 09 8 3	4 0. 0. 09 7	0. 09 7	0. 03 5	0. 04 8	). 00 0	0. 0. 0. 0. 2	0.	0. 04 8	- 0. 03 6	0. 01 01 6	0. 60 1	0. 02 8	0. 01 6 0 5	0.03	4 0. 09 7	0. 04 8	0. 03 5	0. 09 7	0. 02 8	0. 21 3	0. 01 6					
5'	7 - 0. 05 2	0. 00 2	0. 02 9	0. 01 2	0. 00 6	0. 00 6	0. 0 04 0 8 2	 0 0. 00 2	0 0 3	1 0. 0	0. 01 1	0. 02 8	0. 03	- 0. 03 5	) 02 0 8 0 5	0. 0. 0. 0. 8	. 0 9 0 6	 0 0. 02 8	0. 21 3	0. 01 6	0 0. 0 09 8 7	4 0. 00 2	0. 02 8	0. 01 3	0. 00 6	0. 0. 01 3	- 4 0. 09 7	0. 01 6	0. 47 6	- (0 0. (0 05 (8	). 0 )4 3	) 03 0. 00 2	0. 02 9	0. 02 8	- 0. 01 01 2	0. 60 1	0. 01 6	0. 05 1	0. 47 6 0 7	0 0 0 0 2	0 0. 03 5	0. 00 6	0. 05 2	0. 01 2	0. 00 6	0. 04 3	0. 09 0 8 0 5	0. 3 21 3	1.0			
58	3	0	3		00 6	2	8   8	2	1	2		2		2   2	2	2	12	0 02	09 8	04 3	04 0 8	9 00	0. 01 2	8	0. 02 8	2		15	17 I	7 5	). 0 )3 8	4 03		03	$\begin{vmatrix} 00 \\ 2 \end{vmatrix} = \begin{vmatrix} 00 \\ 8 \end{vmatrix}$	3		01 6	60 0 1 2 3	3		1 0. 03 5		17		5	 0. 0 09 0 7 1	5 6		0		
5!	0.0	0. 01 3	0. 00 6	0. 01 3	0. 00 6	0. 01 1	0. 0 00 0 2 8	. 0. 2 0. 8	- 0 0 0 2	. 0. 0 05 2	0. 00 6	0. 01 2	0. 01 2	0. 00 6	0 0. 0 05 9	) 02 0. 00 2	0 0 0 9	2 0. 00 2	0. 00 6	- (0 0. (0 01 8 2	). 0 )9 0 3 3	. 0. 4 09 8	0. 04 3	0. 01 2	0. 00 6	0. 0. 02 02 8 8	0.03	0. 00 2	0. 04 8	0. 03 03 5	 ). 0 )9 0 7 7	0. 0. 0. 8	1 0. 03 5	0. 00 2	0. 03 8	) 04 0. 03 5	- 0. 09 7	0. 21 3	0. 0 01 0 6 6	0. 01 0 6	. 0. 1 60 1	0. 21 3	0. 02 8	0. 01 6	- 0. 03 5	0. 04 8	 0. 0 09 0 7 1	0. 0. 0. 1	0. 02	0. 47 6	1. 0	
6	0.	0. 00	0. 00	0. 0	0. 01 3	0. 00 2	0. 0 01 0 1 2	0 0. 0 02 8	- 0 0 0 8	. 0. 2 01 2	0. 01 2	0. 00 6	0. 05 2	0. 02 9	). 0 00 0 2 2	0. 00 00 9	. 0 2 0 6	0 0 05 2	0. 02 8	- 0. 02 8	) 00 0 5 0 2	0. 04 1 3	0. 09 8	0. 04 3	0. 09 8	0. 0. 01 6	0.00	0. 03	0. 03	0. 00 2	) )4 0 3 0 5	- 0. 0. 3 09 7	- 0. 09 7	0. 03 5	0 04 0 8 0 5	0. 04 03 8	- 0. 09 7	0. 03 5	- 0 0. 0 09 8 7	). 02 0 2 3	0. 01 1 6	0. 01 6	0. 01 6	0. 60 1	0. 21 3	0. 02 8	0. 0 01 4 6 6	7 0. 0. 0. 1	0. 04 8	0. 05 1	0. 47 6	

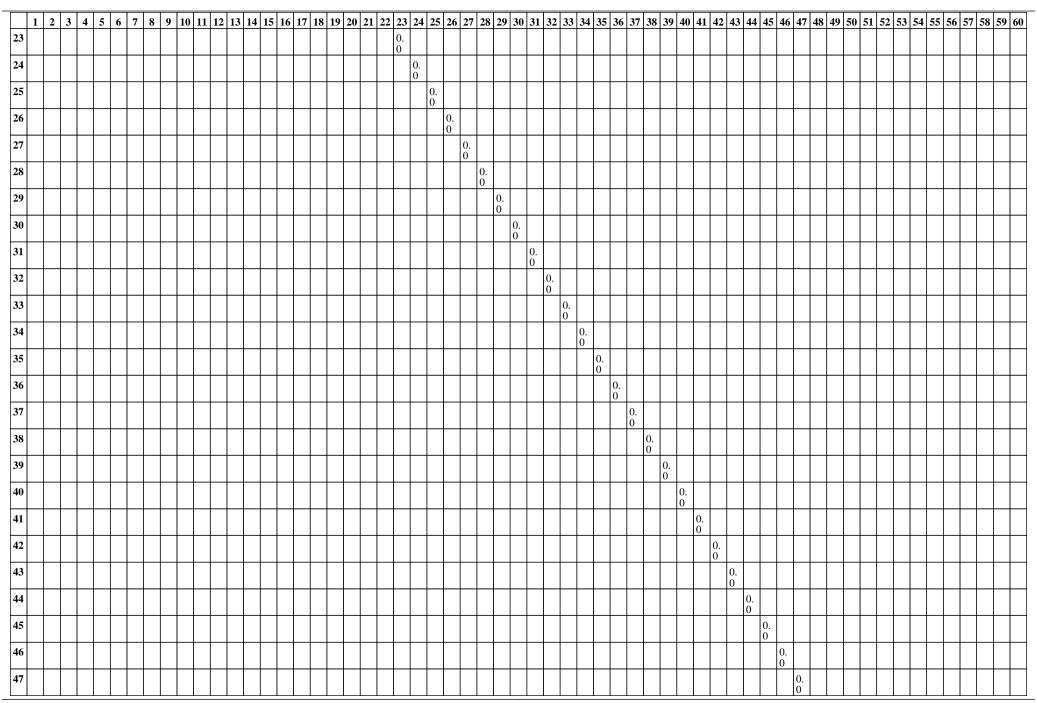
### 3.2. Presentation of bond order:



# 4. Net Charge

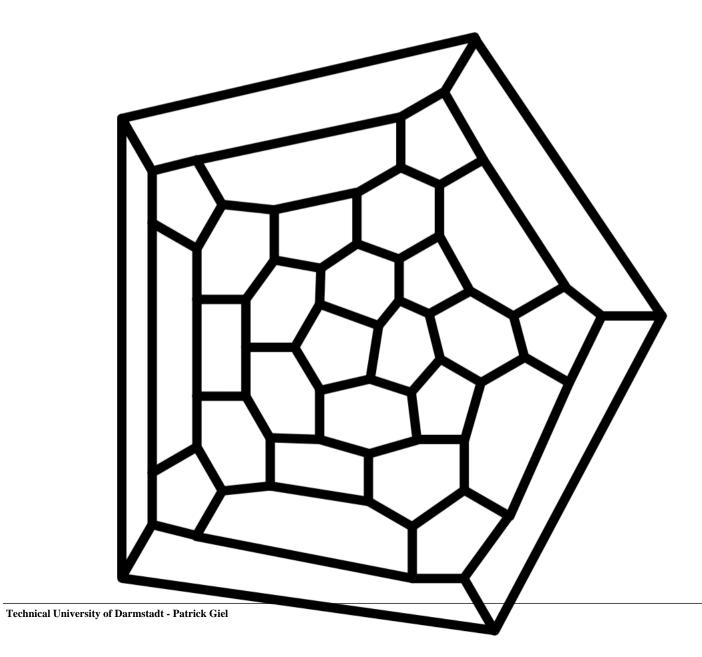
### 4.1. Calculated values:





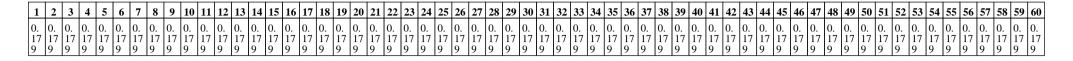
	1	2	3	4	5	6	7	8	9 1	10 1	1 1	2 1	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46 4	17	48 4	9 5	0 5	1 52	53	54	55	56	57 5	58 59	9 60
48																																																0.										
49																																																0	).									
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57																																																								0.		
58																																																								(	).	
59																																																									0.	
60																																																										0.

### 4.2. Presentation of molecule:

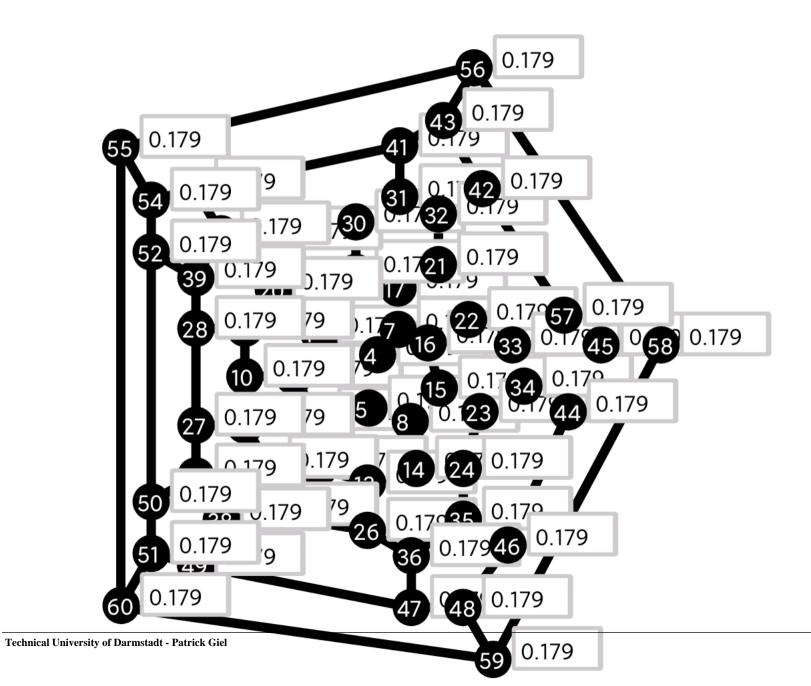


### 5. Free valences

#### 5.1. Calculated values:



#### 5.2. Presentation of molecule:



# 6. Atom-Atom-Polarizability

### **6.1. Calculated values:**

	1	2	3 4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 1	9 2	0 21	1 22	2 23	24	25	26	27	28	29	30	31	32	33 3	34 3	35 3	36 3	7 38	39	40	41	42	43	44 4	5 4	6 4	7 48	8 49	50	51	52	53	54	55	56 5	57 5	58 5	9 60	1
1	0. 38 3																																																							
2	0. 05 3	0. 38 3																																																						
3	0. 01 4	- 0 0. 3 05 3	). 38 3																																																					
4	0. 05 3	0. 01 04	0. 01 38 4	3																																																				
5	0. 01 4	0.   - 01   0 4   0 3	0. 0. 05 05 3	0. 38 3																																																				
0	0. 13 5	0. 00 7 8	).   0.  00  7	0. 00 8	38																																																			
7	0. 00 7	0. 00 00 8	). 0. 00 13 5	0. 00 7	0. 04 5	0. 38 3																																																		
8	0. 00 8	0. 0 00 7 8	0. 00 7	0. 13 5	0. 00 3	0. 04 5	0. 38 3																																																	
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11	0. 00 6	0 00 0 7 0 5	). 0. 04 00 5 3	0.00	0. 00 1	0. 00 1	0. 01 5	0. 00 7	0. 05 3	0. 38 3																																														
12	0. 00 1	- 0 0. 0 04 7	) 00 0. 00 3	0. 00 6	0. 01 5	0. 00 1	0. 00 1	0. 05 3	0. 00 7	- 0. 13 5	0. 38 3																																													

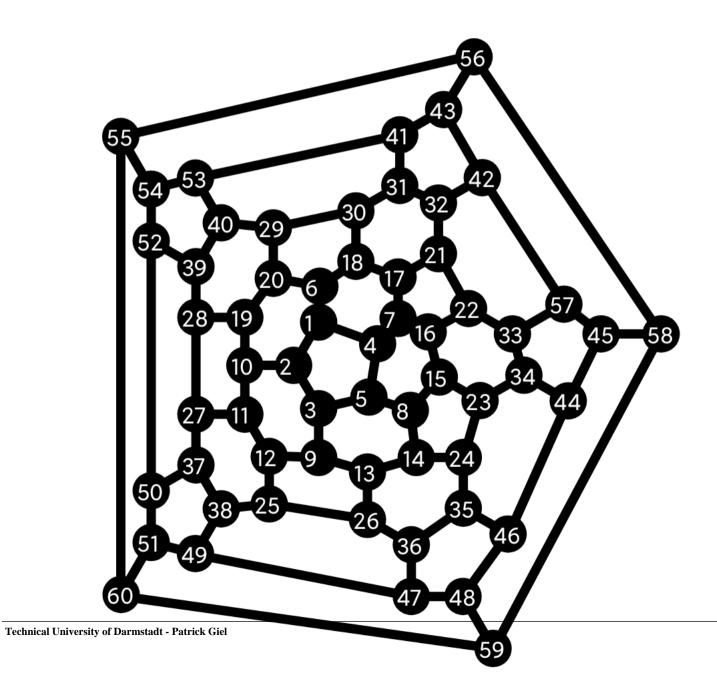
1	2	3	4 5	5 6	7	8	9 1	10 1	1 12	2 13	3 14	15	16	17	18	19 2	20 2	21 2	22 2	23 2	4 2	5 20	6 2	7 28	8 29	30	31	1 32	2 33	34	35	36	37	38	39	40	41	42	43	44 4	15 4	6 4	7 4	8 4	9 50	) 51	52	53	54	55	56	57	58 5	59 (	60
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16 - 0. 00 6	0. 00 3	0. 00 1	0 00 0 7 0 5	. 0 4 1	0. 0. 05 3	0. 00 7	). (0 )1 (0 )5 1	). 0 )0 0 1 6	0. 00	0. 00 3	0. 00 8	0. 13 5	0. 38 3																																										
17 - 0. 04 5	0. 00 4	0. 00 3	0 00 0 7 0 6	0 0 7	0. 0. 05 3	0. 00 1 1	). 0 00 0 5	0 0. 0 01 1	).  -  0  0.  0(  6	0.	0. 00 1	0. 00 8	0. 01 4	0. 38 3																																									
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26	0 0 0 0 0 3	). 0 00 0 8 8	0. 0. 00 00 1	0.	0. 00 1	0. 00 1	- 0. 00 6	0. 01 4	- 0. 00 3	- 0. 00 8	0. 01 4	- 0. 05 3	0. 00 7	0. 00 3	0. 00 1	0. 00 3	0. (	) ) () ()	). 00	) ) ( (	). (C) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D)	) 00 0 0 5	). 0 0 14 0 3	0 3 3	8																																
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	0. 0. 00 1	o lo			0. 01 4	0. 00 3	0. 00 1	0. 00 1	0. 00 6	- 0. 00 3	0. 00 1	0. 00 3	0.	0. 00 1	0. 0	0. 00 8	0. 01 4	O OO 0 7 0 3	). (C )5 1	) )0 ( l (	). (C			0 0	0 0 1	olo	0. 38 4 3	8																													
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31	0. 0 00 0 3 1	). 0 00 0 1	0. 00 01 5	0. 00 1	0. 00 8	0. 00 1	0. 00 6	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0	0.	0. 00 1	0. 00 3	0. 04 5	0. 00 7	). 0. 00 00 3	). (C )() (7 )() (7	00 (0 7 (0 6	). (C )0 (1 )0 1	) 00 0 0 0 3	0.00	0 0 2	0 0	 0 0 0 0 5	. 0. 00 1 7	0 0. 13 5	0. 38 3	3																											
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	0. 00 00 1	0.00	). 00 0. 00 3	0. 01 5	0. 00 1	0. 00 8	0. 00 1	0. 00 6	0. 00 1	0. 0	0.	0. 00 1	0. 00 3	0. 04 5	0. 00 7	0. 00 8	0. 00 3	). 	). 00 7	). )0 7 1	). 0 0 13 7	).  - 00   0 0   6	0. 0 0 0 0 0 3	0 0 1	0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0	0 0	. 0.	0. 01 5	0. 00 1	0. 04 5	0. 38 3																										
34	0 00 0 1 0 1	). 0 00 0 1	0. 0. 00 01 5	0. 00 3	0. 00 6	0. 00 1	- 0. 00 8	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 3	0. 00 8	0. 00 7	0. 04 5	0. 00 3	0. 00 1	). (C	) ) () ()	). ( )0 7	) )0 0 7 1 5	). 0 0 3 7	0. 0 0 0 1	0 0 0 0 5	0.01	. 0002	 0 0. 00 3	0.00	0. 00 1	0.00	0. 05 3	0. 38 3																									
35	0. 0. 00 1	) 00 0 0 5	0. 0. 01 00 1	0. 00 3	0. 00 1	0. 00 1	0. 00 8	0. 00 1	0. 00 6	0. 00 1	0. 00 3	0. 04 5	0. 00 7	0. 00 8	0. 00 3	0. 00 1	0. 00 1	). (C	). (C ) (C 1	). )0 ( l (	). (C ). (C )1 7	) 00 0 ' 1 5	0 3 0 6	0 0 7	0 0 0 1	. 0 0 0 0 3	0.00	0.	0.	0. 00 6	0. 00 1	0. 04 5	0. 38 3																								
36	0. 0 00 0 1 1	). 0 00 0 3	0. 00 1	0. 01 5	0. 00 1	0. 00 6			0. 00 1	- 0. 00 3	0. 00 8	0. 00 7			0. 00 1	0. 0	0.	). (C) (D) (C) (D) (D) (D) (D) (D) (D) (D) (D) (D) (D		). ( )() 1 3	) 00 0 1 0	). 00 7	). 0 00 0 7	0 0 1 5	. 0 3 0 5	. 0 0 1 1	0 0	0. 00 2	0. 00 1	0.	0. 00 1	0. 00 1	0. 05 3	0. 38 3																							
37	0. 0 00 0 1 3	). 0 00 0 3 5	0. 0. 01 01 1	0.00	0. 00 1	0. 00 1	0. 00 6	0. 00 1	0. 00 8	0. 00 7	- 0. 04 5	0. 00 3	0. 00 1	0. 0	0	0. 00 1	0. 00 1	0. 0 00 0 3 3	). 00 3	) (2	) 00 0 2 0 3	0 0 0 1	0 0 7	0 0 0	0. 0. 1. 5.	. 0 0 7	0 0.0	0. 00 1 1	0. 00 6	0.	0. 00 1		0. 00 1																								
38	0.   - 00   0 1   0 5	). 0 01 0 5 3	0. 0. 00 00 1	0. 00 1	0. 00 6	0. 00 1	0. 00 1	0. 00 8	0. 00 1	- 0. 04 5	0. 00 7	0. 00 8	0. 00 3	0. 00 1	0. 00 1	0.	0. 0	). 0. 00 0 3	0. 00 2	). 00 2	). C ) C 1	).  - 00   0 0 5	). 0 01 1 5	0 0 3 7	0.00	0 0 0 6	0. 00 1	0. 00 00 3	0.	0. 00 1	0.	0. 00 6	0. 00 1	0. 04 5	0. 05 3	0. 38 3																					

$\top$	1	2	3	4	5 6	7	8	9	10	11	12	13	14 1	15 1	6 1	7 18	3 19	20	21	22	23 2	4 2	5 2	6 27	7 28	29	30	31	32 3	33 3	34 35	5 36	5 37	38	39	40	41 4	12 4	3 44	45	46	47	48	49	50	51 5	52 5	53 5	4 55	5 56	57	58	59 60
39	- 0. 01 5	- 0. 00 3	- 0. 00 1	0. 00 1	0. 0. 00 1	0. 00 6	0. 00 1	- 0. 00 1	0. 00 8	0. 00 8	0. (0 00 (3	- ( 0. ( 00 1	0. 00 1	0 0	0. 00 1	0.00	0. 00 7	- 0. 04 5	0. 00 1	0. 00 3	0. 00 2	0 0 5	0. 00 1 1	0.007	0. 13 5	0. 00 7	- 0. 00 6	0. 00 1	- 0. 00 1	) ) ( (	0. 0. 0	0. 00 6	- 0. 04 5	0. 00 1	0. 38 3																		
40	0. 00 3	0. 01 5	0. 00 1	0. 00 1	 0. 0. 00 00 1 8	0. 00 1	0. 00 1	- 0. 00 6	0. 00 1	0. 00 3	0. 00 1	0. (	0. 0 0 0 1	) 00 0 0 1	0. 0 00 3	- 0. 00 8	0. 04 5	0. 00 7	- 0. 01 5	0. 00 1	0. 0 0 0 2	0 0 1	 0 0. 00 3	- 0. 0. 0. 6	0.	- 0. 13 5	0. 00 7	0. 04 5	0. 00 1 6	). )0 5	) 0. 0. 0(	0.0	0. 00 1	0. 00 1	- 0. 05 3	0. 38 3																	
41	00 1	- 0. 00 6	0. 0	0. 00 1	). 0. 00 00 3 3	0. 00 1	0	0.	00 1	- 0. 00 1	0. 00 1	0. 00 2 1	0. 00 00 1	000	0.00			0. 00 1	- 0. 00 8	0. 00 3	- 0. 00 1	0 0 1	0.0	0. 00 1	0. 00 3	- 0. 04 5	0. 00 7	0. 05 3	0. 01 4 (3		) 0. 0. 00 3	0.0	0. 00 1	00	0.	0. 00 7	38																
42	00 1	0. 00 3	0. 0	0. 00 1	 0. 0. 00 00 5 1	0. 00 3	0. 00 1	0.	0.	- 0. 00 1	0. 00 2	0. 00 1 1	0. 00 00 1	0 0 0 1 1	 0 0. 00 6	0.	0. 00 1	0. 0	0. 00 7	- 0. 04 5	- 0. 00 00 3	0 0	. 0.	0.	0. 00 1	0. 00 3	- 0. 00 8	0. 01 4	- (0 0. (0 05 7	). )0 ( ' (	). 0. 00 00 3 1	- 0. 0. 0. 1	0. 00 3	0.	0. 0	- 0. 00 4	0. (0 01 3 4																
43			0. 00 1	0.	). 0. 0		0. 00 3	0. 00 2	0.	0. 0	0. (	0. (	0. 0 0 0 1	) 00 0 0 1	. 0. 0 00 3	0. 00 3	0.	0. 00 1	- 0. 00 8	0. 00 1	- 0. 00 0 1	0 0 1	0. 0 00 1	- 0 0. 00 6	1		- 0. 00 8	0. 01 4	0. 01 4 6	). ( )0 ( 5 (	0. 00 00 1	0 0 0 0 1	0.	0. 00 1	0. 00 3	0. 00 00 6	). ( ). ( )5 ( 3 3	3															
44		0. 0	- 0. 00 6	0. 00 1	0. 0. 0 1	0. 00 1	0. 00 3	0. 00 1	0.	0. 00 1	0. 00 00 1	- (0 0. (0 01 1 5	0 00 0 1 0	0 0 0 1 5	0.0	0. 00 1	0. 00 2	0. 00 1	0. 00 3	0. 00 8	0. 00 7 5	. 0 4 0 1	. 0. 0 00 3	0.00	0.	0. 0	0. 00 1	0.	- (0 0. (0 00 2 3	) )1 ( } (	0. 0. 0. 0. 7	0 - 0 0. 00 8	0. 00 1	0. 00 1	0. 0	0. 00 00 3	00 0	).   0 )0   1	0. 38 3	}													
45	0	- 0. 00 1	0. 0	00	). 0. 00 00 1 3	)	0	0. 00 3	0. 00 2	0. 0	0. (	0. 00 1 1	0. 00 00 1	). 0 00 0 3 3	. 0. 0 00 1	00	0.	0. 0	0. 00 1	0. 00 8	- 0. 00 1	0 0 0 0 6	0 0. 0 1	0.00	0.00	- 0. 00 6	- 0. 00 1	0. 00 3	- ( 0. ( 00 2 6	). ( )1 ( ,	0.	0. 0. 0. 3	0. 00 1	0. 00 1	- 0. 00 1	0. 00 1	). 00 1	) 00 0 7 0 5	0. 4 05 3	0. 38 3													
46	0	0. 00 3	1	0. 00 6	0. 0. 0 1	00		0. 00 1		0. 00 1	0 (		0. 00 6				0. 00 1		0. 00 1	0. 00 3	- 0. 04 7	0 0 0 3	. 0. 0 00 8	0. 0. 0. 1	0.	0	ΙI	1	1   8	≀ I	) 00 0. 0. 0. 3	0. 01 5 4	0.	0. 00 3	0. 00 3	0. 0	) 00 ( 1 (	 0. 0 00 0 3 5	1 13	0. 00 7	38												
47	0	- 0. 00 6	00	0. 00 3	). 00 0	0.	0. 00 1	0. 00 3	0. 00 1	- 0. 01 5	0. 00 1	- ( 0. ( 00 1 6	0. 00 1	) 0 0 1	. 0. 0 00 1	0.00	0. 00 1		0. 0	0. 00 1	0. 00 00 3	. 0 0 0 5	0. 00 4	0. 00 00 3	0. 00 1	0. 00 1	0.	0.	- 0. 00 3	) ) ( (		05	$\begin{bmatrix} 00 \\ 8 \end{bmatrix}$	7	00 1	0. 00 00 1		) 00 0 1 0 1	- 0. 0. 0. 8	0. 00 1	01	0. 38 3											
48		0. 0	0. 00 1	0.	0. 0. 00 2	0.0	0.	0	0. 00 3	0. 00 1	0. 00 00 1	0. 00 00 3	0. 0 00 0 3 1	0 0 0 1	0.0	0.	0. 0	0. 0	0. 00 6	0. 00 1	0. 00 1 8	0 0 1	 0 0. 00 8	0. 0. 0. 1	0. 00 6	0. 00 1	0. 00 1	0. 00 1	0. 00 1 3	). ( )0 ( )3 (	0. 0. 00 4	0. 1 01 4	0. 00 3	0. 00 6	0. 00 1	0. 00 1	). (0 00 (0 1 5	). 0. 01 00 5 3	0. 00 7	0. 04 5	05	0. 05 3	0. 38 3										
49	0. 00 3	0. 00 1	00 1	- (	0. 0. 0 0 5	0.	00	0. 00 3	0. 00 1		0. 00 6	0. 00 1	 0. 0 01 0 5 1	). 00 1	0.00	0. 00 1	0.		0. 0	0. 00 1	- 0. 00 00 1	0 0 7	 0 0. 04 5	- 0. 0. 8	0. 00 3	0. 00 1	0. 0	0. 00 3	0.   - 0   0 0   1	). ( )0 ( 1	). 0. 00 00 8	0. 00 7	0. 01	0. 05 3	0. 00 3	0. 0	) )0 ( 1 ( 6	). 0 00 0 5 1	0. 0. 0. 3	0. 01 5	0. 00 8	- 0. 13 5	00 7	0. 38 3									
50	00	0. 00 1	0. 00 1	0	0. 0. 00 1	0.	0	00	00	- 0. 00 6	0. 00 1	1	1 1		0. 0 00 1	0.00		5		0	0 0 0 0	. 0 0 0 8	0. 0 00 3	0.007	0. 04 5	0. 00 3	0. 00 1	0. 00 1	0. 00 1	3		3	05	4	7	0. 00 8	00 1	5		1	1	8	00	01 4	3								
51	0	0. 00 1	0. 00 1	0.	) 0. 00 3	) 2	0. 00 3	0.		0. 00 3	00 l	0. [(	0. 00 1	0 0	0.0	0.	0. 00 1	0. 00 1	0. 00 1	0. 00 1	- 0. 00 6 1	0 0 8	0.00	0.00	0.	0. 00 1	0. 00 6	0. 00 1	0. 00 00 1	). ( )0 1	) 00 0. 00 3	0. 0. 0. 6	0.	0. 01 4	0. 00 6	0. 00 00 3	). ( ). ( )1 ( 5 1	). 0 00 0 1 3	- 0. 0 01 5	0. 00 3	0. 00 1	0. 00 7	0. 04 5	0. 05 3	0. 05 3	0. 38 3							

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5	2 0. 00 1	0 l 0.	. 0. 0 00 6	0 0	00	) 0. 0. 1	0.0	0. 0	0. 00 1	- 0. 00 3	1	0. (0 01 (0 5	0. 00 1	0. 00 1	0. 00 2	0. 00 01	). 00 1	) ) () ()	0 1	0 - 0 0. 00 1	0.	0. 0	0. 00 1	0. 00 3	00	- 0. 04 5	7 (	0. 00 00 8	0 0 0 3	0	0. 00 3	0.	- 0. 00 1	0. 00 1	7 (	0. 0 00 0 8 3	0. 0. 05 4	- 1 0. 00 8	00 (0	0. 00 1	- 0. 00 6	- 0. 00 1	1 (	00 (	 0. 0 01 0 5 8	00 1	0. 00 7	38							
5	3 - 0. 0. 1	0.00	0 0. 00 3	. 0 0 0 6	. ( ). ( )0 5	) 0. 0. 0. 3	0.00	0.	0.	0. 00 1	0.	0. 00 1	0. 00 1	0. 00 2	0. 00 1	0. 00 00 1	). (C ). (C )1 1	). (0 )0 (0 . 1	) 00 0 0 0	- 0. 0. 0. 3	0. 00 1	0. 00 1	0.	0. 00 1	0.	0. 00 3	- 0. 00 8	0 00 0 7 0 5	0 0 0 7	0 0. 0 0. 0 8	- 0. 0. 0. 1	0. 00 1	0.	0. 00 3	- 0. 00 3	0. 0 0 0 4	) )1 0. 1 0. 3	- 0. 5 13 5	- 0. 00 8	0. 00 7	0. 00 1	- 0. 01 5	0. 00 6	0. 00 1 1	0. 00 00 1	). 00 00 8	0. 00 1	0. 01 4	0. 38 3						
5	0.	. 0 0 0 1	0.0	. 0	) ) ( (	0. 0. 00	0. 00 3	0.	0. 00 3	0. 0	0. 00 1	0. 00 1	0. 0	0. 0	0. 0	0. (0 0 (1	) )0 () 1 ()	). (C )() (C )() (3	0. 00 00 3	- 0. 0. 0. 1	0. 00 6	0. 00 1	0. 00 1	0. 00 1	0. 00 6	0. 00 1	0. 00 8	0. 00 00 1	0 0 0 0 0 6	0. 0 00 3	0. 00 0 1	0. 00 1	0. 00 1	0. 00 1	- 0. ( 00 ( 6 (	0. 00 00 4	0. 01 01 4	0. 1 00 7	0.00	- 0. 04 5	0. 00 1	0. 00 3	0. 00 1	- 0. 01 01 5	0. 00 1	0. 00 0 7	 0 0. 04 5	1 05	- 0. 05 3	0. 38 3					
5	5 0. 00 1	0 0 0 1	0.0	. 0		) 00 0. 2 00 1	0.0	0. 00 1	0.	0. 00 1	0. 00 1	0. 00 6		0. 0	0.	0. 00 00 3	).   0 0.   0 00   1 5	).  - 00   0 0	0. 0 0 0 1	0. 0 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 01 5	0. 00 3	0. 0 00 0 3 5	0 0 0 1	0 0 0. 0. 0. 3	0. 0 00 1	0.	0.	0. 00 1	0. 00 1	0. 00 00 3	). 00 00 8	0. 0. 0. 0. 5	- 0. 00 6	0. 00 7	0. 00 3	0. 00 8	0. 00 3	0. 00 1	0. 0 00 0 8 6	). 0 00 0 5 5	0. 00 4	0. 00 7	0. 00 7	0. 13 5	0. 38 3				
5	6 0. 00 1	0 0	0.00	$0 \mid 0$	). () ()	) [0.	0. 0. 0. 1	0.	0. 00 1		0. 00 3	0. 0	0.	0. 00 3	0. 00 6	0. 00 1	).   - ).   () )()   ()   1	). (C )() (C )() (C	0 0 0 1	0. 0. 00. 3	0. 01 5	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 0 01 0 5 3	0 0 0 8	0. 0. 0. 0. 8	0.00	0. 00 3	0. 00 1	0.	0. 00 1	0.   - 0   0 0   0 3	0. 00 1	0.007	0. 00 7	0. 13 5	0. 00 6	0. 00 7	0. 00 1	0. 00 00 3	0. 0 00 0 8 3	0.00	 0 0. 00 8	0. 00 6	- 0. 04 5	0. 00 7					
5	7 - 0. 0. 6	0	0.	0 0 0	). ( ). ( )0 1	0. 00 1	0.00	0.00	0.	0	0. 00 2	0. 00 00 1	0. (	0.	1	- 0. 00 6	).  -  00  1  5	)1   1	). 00 0 0 1	0. 0 04 5	17	0. 00 8	00	0.	0. 00 1	0.	0. 00 1	0. 0 00 0 1 3	0 0 0 8	0 7	0 0. 05 3	0. 01 4	0. 00 3	0.	(	0. 0 00 0 3 1	0. 00 00 1	0. 0. 0. 8	) 13	0. 00 7	4	0. 05 3	00	- 0. 00 1	0. 00 1	). 00 0 0 6	0 00	0.00	0. 00 3	0. 01 5	1	- 0. 04 5	0. 38 3		
5	8 0.0				). () () ()	0. 0.	0.	0.00	0.	0. 00 1	0.	0. 00 00 3	0. 00 6	0. 00 1	0. 00 1	- 0. 00 1	).  -  00  0  1  0	). 00 5	) 0 0 0 3	0. 0 01 5	0. 00 3	0. 00 3	0. 01 5	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 1 0 1	0 0 0 3	0.00	0 0 0 0 8	0. 00 8	0. 00 1	0. 00 3	0	0. 00 1	).   - 0. 0. 1	0. 0. 0. 6	0. 04 5	0. 00 7	0. 00 7	0. 13 5	0. 04 5	- 0. 00 6	0. 00 7	) 00 0 0 3	0. 0. 0. 8	0. 00 3	0. 00 1	0. 00 8	0. 01 4	- 0. 05 3	0. 00 7	). 38 3	
5	9 0. 00 2	0 0	0.00	0 0	). ( ) (	). 00 0. 00 1	0.0	0. 00 1	0. 00 1	0. 0	0. 00 6	0. 00 1	0. 00 1	0. 00 1	0. 00 1	- 0. 00 6	). 00 3	) 0 0 0	0.00	0. 00	0. 00 1	- 0. 01 5	0. 00 3	0. 01 5	0. 00 3	0. 00 1	0. 00 1	0. 0 00 0 1 1	0 0	0. 0. 0. 1	0. 0 00 3	0. 00 1	0. 00 8	0. 00 8	- 0. 00 3	0. 00 1 0 1	0. 0.	0. 00 3	0.	0. 00 8	- 0. 04 5	0. 00 7	0. 00 7	0. 00 7	0. 0 13 0 5 5	). 0 04 0 6 6	0. 00 7	0. 00 1	0. 00 3	0. 00 8	0. 01 4	0. 01 4	 0. (0 00 (3	0. 0. 38 05 3	
6	0 0.0	. 0	0.00	0 0 2		0. 0.	0. 00 1	0.	0. 00 1	0. 00 1	0. 00 1	- 0. 00 1	0. 00 1	0. 00 6	0. 00 3	0. (	) 0 0 0 3	). (C )() (C )() (1	) 00 0 0 0	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 3	0. 01 5	0. 00 3	0. 01 5	- 0 0. 0 00 1	0 00 0 0 1	0.0	0. 0	0. 00 1	0. 00 3	0. 00 1	0. 00 8	- 0 0. 0 00 1 8	) 00 0. 00 3	0.00	0. 00 3	0. 00 8	0. 00 1	0. 00 8	0. 00 6	- 0. 04 5	0. 00 7	). 0 00 0 7	 0 0. 13	0. 04 5	0. 00 6	0. 00 7	0. 05 3	0. 01 4	- (0 00 2 3	0. 01 0. 0. 05 3	0. 38 3

### **6.2. Presentation of molecule:**



# 7. Bond-Atom-Polarizability

### 7.1. Calculated values:

	1	2	3	4	5	6	7	8 9	9 1	0 1	1 12	2 13	3 14	15	16	17	18	19	20 2	21 2	22 2	3 2	4 2	5 2	6 2	7 28	3 29	30	31	32	33	34	35	36	37	38 3	39 4	0 41	42	43	44	45 4	6 4	7 4	8 4	9 50	) 51	1 52	53	54	55	56	57 5	58 5	59 60
1 2	0. 01 4	0. 01 4	0. 00 4	0. 00 4	4	0. 00 4	0. 00 00 1	). 0 00 0 3 1	0 0 0 4	0 0 0 2	).   - 00   0. 0. 1	0. 1 00 5	0.004	0. 00 4	0. 00 5	0. 01 1	0. 00 2	00 0	0. 00 4 0 1	). (C )() (C )() (3	0.00	0 0	0 0 1	. 0 0 0 3	0.00	0.00	0. 00 3	0. 00 6	0. 00 1	0. 00 2	0. 00 1	0. 00 1	0. 00 1	0. 00 1	1	0. 00 00 2	 0. 0 00 0 7 7	0.00	0. 00 1	0.		0. 0	0. 0		0.	. 0. 0 00 2	0.0	0. 00 1			00	0.	0. 0	). 0 0 0	0. 0.
1 4	0. 01 4	0. 00 4	0. 01 4	0. 01 4	0. 00 4	0. 00	- 0.  -	 0. 0 00 0 1 8	0 0		). 0. 00 4	10	1-	1-	10	0	0. 00 4	. ( ). ( )1 2	0.   - 00   0 2   0 3	). 00 6	). 00 0 0 0 1	0 0 0 3	0	. 0	 0. 0. 3	0.00	0. 00 6	0. 00 00 3	0. 00 7	0. 00 7	0. 00 1	0. 00 2	0. 00 1	0. 00 1	0. 00 1	0. 00 1	0.00	0.00	0. 00 1	0. 00 1	0. 00 1	0. 0			0. 0.	. 0.		0.	0. 00 2	0	0. 0	0. 00 1	- 0. 00 2		0. 0.
1 6	0. 01 2	0. 00 6	0. 00 7	0. 00 6	0. 00 7	0. 01 2	0. 00 4	0. 00 5 5	0 0 4	0 0 0 2	0. 00 00 6	0.00	0.00	0. 00 6	0. 00 2		0. 00 6	). )0 4	0. 0. 0. 0. 0. 2. 5.	) 00 0 2 0	0.00	0 0 1	0 0	. 0	0 0 0 0 3	0.00	0. 00 7	0. 00 7	0. 00 5	0. 00 6	0. 00 1	0. 00 1	0. 0	0.	0. 00 1	0. 00 1	0. 00 5 5	0.00	0. 0	0. 00 1	0. 0	0. 0	0. 0	000	0. 0.	. 0. 00 1	0.0	0.	0. 00 1	0. 00 1	0. 0	0.	0. 00 1		0. 0.
2 3	0. 00 4	0. 01 4		0. 01 4	0. 00 4	0. 00 1	0. 00 8	). 0 00 0 1 4	0 0 0 4	0 0 4	0. 00 4	0. 00 2	0. 01 1	0. 00 5	0. 00 4	0. 00 4	0. 00 5	). )0 2	). 0. 01 1	). (	).  - 0 0 0	0 0	0 0 0 3	0 6	0 0 0 0 3	) 6	0. 00 1	00	00	0. 00 1	0. 00 1	00	0. 00 2	0. 00 1	0. 00 7	- 0. 00 1	). 00 0 0 0 2	0.0	0.	0.	0. 0	0. 0	0. 00 00 0 2	000	0. 0. 0. 1	0. 0 00 1	0. 00 1	0.002	0. 00 1	0.	0. 0	0.	0. 0	). 0 0 0	0. 00 1
	0. 00 6	01	00	0. 00 7	100 I	0. 00 4	0. 00 5	0. 00 5 0 4	0 0 0 2	1   0	00   4	0. 00 2	0. 00 6	0. 00 1	0. 00 1	0. 00 6	2 (	. ( ). ( )0 4	0. 00 4	). (C) (C) (1		0 0	002	0 0 0 3	- 0. 0. 0. 7	0. 0. 0. 7	0.	0. 00 00 3	0. 00 1	0. 00 1	0.	0.	0. 00 1	0. 00 1	0. 00 5	0. 00 6	0. 00 0 6	00	0. 0	0.	0.	0. 0	0. 0 0 1	0 0	0. 0.	. 0. 00 1		00 00	0.	0. 00 1	0.	0.	0. 0	). 0 0	0. 0. 0
3 5	0. 01 4	0. 00 4		0. 00 4	0. 01 4	0. 00 8	0. 00 00 1	). 0 00 0 4 4	0 0 0 1	0 0 0 1	0. 00. 00. 01. 2	0. 00 4	0.004	0. 00 2	01	- 0. 00 5	0. 00 4	0. 00 5	0. 00 0 0 0 3	00 0	0. 00	0 0 0 3	0 6	0 0 0 3	0 0	0.00	0.		0. 00 1	100	0. 00 2	1		00	0. 00 2	0. 00 1	). [0	0.	0.	0.	0. 00 2	0. 0	0. 0 0 0 1	0 0 0 1	0. 0. 0. 0. 0. 0. 2	0   00	0.0	0.	0.	0.	0.		- 0. 00 1	0. 0 0 0 1	0. 00 0
1	- 0. 00 7	- 0. 00 6	0. 01 2	0. 00 7	0. 00 6	0. 00 5	0. 00 5	) 00 0 4 0 2	0 0 4	0 0 0 4	) 00 0. 00 6	00 00	0.	0. 00 2	0. 00 6		0. 00 1		0. 00 0 5	0. (0)	) 0 0 0	0 2	- 0 0 0 7	. 0 0 0 7	0.00	0.00		0. 00 1	0.	0.	0. 00 1	- 0. 00 1	0. 00 6	0. 00 5		0. 00 5	0 0. 00 1	0.	0.	0.	0. 00 1	0. 0	0. 0 0 1	0 0 0	0. 0. 0. 0. 1	0.0	0. 00 1	00 00	0.	0.	0.	0.	0. (	). 0 0	0. 0. 0
4 5	0. 00 4	0. 01 4	0. 00 4	0. 01 4	0. 01 4	0. 00 1	0. 00 00 4	). 0 00 0 4 1	- 0 0 8	0 4	) 00 0. 1 00 5	01	0. 00 2	0. 00 4	0. 00 4	0. 00 2	0. 01 1	). )0 4	0 0. 0 00 6	) 00 0 5 0	0 0	0 6	0 0 0 3	. 0 0 0 1	0.0	0.	0. 00 3	00	0. 00 2	0. 00 1	0. 00 7	- 0. 00 7	0. 00 1	- 0. 00 2	0. 00 1	- (0 0. (0 00 1	) 00 0 1 0 1	0. 0. 0. 1	0. 00 2	0.	0. 00 1	- 0. 00 00 1	0 0	. 10	0. 0.	. 0.	0.	0.	0.	0.	0.	0. 0	0. (0 00 (1		). 0. 0
4 7	- 0. 00 6	- 0. 00 7	- 0. 00 7	0. 01 2	- 0. 00 6	0. 00 4	- (0 0. (0 01 4	). 0 00 0 1 5	0 0	0 0 0 1	0. 0. 0. 0. 1	00	0.00	0. 00 4	00	- 0. 00 6	0. 00 4		0 00 0 2 0 7	). (C) 00 (C) 7	0. 00 2	0 0 0 0 3	0 0 1	0 0	0.00	0.	0.	0. 00 2	0. 00 6	0. 00 5	0. 00 5	0. 00 6	- 0. 00 1	00	0.	0 (	) 00 0 1 0 1			0. 00 1		0. 00 1	0. 0	. 0	0. 0.	. 0.	0.	0.	0. 00 1	0.	0.		0. 00 1		). 0. 0
5 8	- 0. 00 7	- 0. 00 7	0. 00 6	0. 00 6	0. 01 2	00	0. 00 4 02	000000000000000000000000000000000000000	0 0 5	o lo	0. 00 00 2	00	0. 00 6	0. 00 6	00	0. 00 2	00	00	0 00 0 1 0 3	0. 00 2	). 00 0 0 7	. 0 0 0 7	0 0 0 3	0 2	0 0	0. 00 1	0.	0.	0. 00 1	0. 00 1	0. 00 6	0. 00 5	0. 00 5	0. 00 6	0. 00 1	- 0. 00 1	0 0	0.	0. 00 1	0.	0. 00 1	0. 00 1	0. 0	0001	0. 0. 0. 0. 1	0.0	0.	0.	0.	0.	0.	0.	0. (		0. 0. 0
	0. 00 4			0. 00 4	0. 00 3	0. 01 4	0. 00 4	0 0. 0 00 1	0 0 0 1	- 0 1 0 1	0. 0. 00 00 2	00 00	0.00	- 0. 00 7	0. 00 3	- 0. 00 4	0. 01 4	. ( ). ( )0 4	0. 00 0 1	). (0 )(0 )(2	). 00 0 1	0 0 0 1	0 0 0 1	000	 0. 00 3	- 0. 00 5	0. 01 4	0. 00 4	0. 00 1	- 0. 01 1	0. 00 1	0. 00 2	0. 00 1	0	0. 00 1	0 0	) 00 0 4 0 8	- 0. 0. 0. 5	0. 00 1	0. 00 3	0. 0	- 0. 00 1	0.0	. 0	0. 0.	. 0. 00	0.0	0.	0. 00 4	0.	0. 00 1	00	0.	0. 0	0. 0. 0
	0. 00 4			0. 00 2		01	- (0 0. (0 01 1	) 00 0 1 0 7		0 0 0 3	). 0. 00 00 7	0. 00	0. 00 2	0. 00 2	0. 00 1	0. 00 1	0. 00 4	. ( ). ( )0 4	0.   - 01   0 4   0 5	). (0 )(0 )(3	). 00 00 1		0 0 1	olo	0.00	0.00	001	01	0. 00 8	0. 00 4	0. 00 1	0. 0	0. 0	0. 00 1	0. 00 1	0. 00 00 2	). 0 0. 0 01 0 1 1	0. 00	0. 0	0.	0. 0	0. 0	0. 0	0	0. 0.	.   - 0. 00 2	0. 00 1	0. 00 1	0. 00 5	0. 00 3	0. 00 1		0. 00 1		0. 0. 0

T	1	2	3	4	5	6	7	8 9	9 1	10 1	1 12	2 13	14	15	16	17	18	19 2	0 21	22	23	24	25	26	27 2	8 2	9 30	31	32	33	34	35	36 3	37 3	8 39	40	41	42	43 4	4 45	46	47	48 4	9 5	0 51	52	53	54	55	56 5	57 58	3 59	60
7	6 0. 00 2			0. 00 4	0. 00 4			) 00 0 4 0 7	0 0 1	) 00 0. 00 2	0.00	0. 00 7	0. 00 3	- 0. 00 4	0. 01 4	0. 00 4	0. 00 1	0. 0 00 0 2 1	0. 01	0. 00 4	0. 00 2	0. 00 6	0.	0. 00 1	0 0 0 0	). 00 00 3	0. 0. 0. 5	0.	- 0. 00 8	0. 00 1	0. 01 1	0. 00 1	- 0. 00 2	). 0 0 1		0. 00 1		0. 00 4	0 0 0 0 1	0. 00 00 3			- 0. 00 1	. 0.			0. 00 1		0.	0. 00 1 5	). 0. 00 00 5 1	0.	0.
7	7 0. 00 4	0. 00 3	0. 00 6	0. 00 4	00	00	0. 01 4 (1	0 0. 0 01 1	0 0	00 1	0 0.	0. 00 2		0. 00 1	0. 00 4	0. 01 4	00	0. 0 00 0 7 3	0 4	0. 01 4	0. 00 5	0. 00 3	0.	0. 00 1	- 0. 00 1	0. 00 0 6	0 00	0. 01 1	0. 00 1	0. 00 8	0. 00 4	0.	0 0	). 0 )0 0	 0. 00 2	0.	0. 00 1	0. 00 5	0. 00 3	0. 0.			0. 0			0.	0. 00 2	0.		- 0 0. 0 00 4	00 00		0.
8	<b>4</b> 0. 00 6	0. 00 3	0. 00 4	0. 00 2	0. 00 4	0. 00 1	- 0. 01 4	0. 0 01 0 4 4	0 0 0 7	). 0. 00 00 7 7	0. 0 00 3	0. 00 4	0. 01 4	0. 00 4	0. 00 1	- 0. 00 1	0. 00 2	0 00 0 1 0 2	0. 0 00 3	0. 00 5	0. 01 4	0. 00 4	0. 00 6	0. 00 2	0 00 0 1 0 1	0 0	 0. 00 1	0.		0. 00 4	0. 00 8	0. 00 1	- 0. (0 01 (0 1 (2	0 0 0 1	0 0 1		0.	0. 00 1	0. 0	0 0	0. 00 5	0. 00 1	- 0. 00 0 3 2	0.0	0. 00 1		0. 0		0.	0. 0	0. 0 0 1	0. 00 1	0.
8	5 0. 00 3		0. 00 2			0. 00 7	0. 00 4	) )1 0 4 0 1	1 1	) 00 0. 1 00 2	00 0	0. 00 1	0.	0.	- 0.	0.	0.	- 10	.  0. 0  00	$\begin{vmatrix} 0.\\00 \end{vmatrix}$	0.	0. 01 4	0. 00 3		- 0. 00 1	) 0 0 0 1	0. 00 1	0. 00 2	0. 00 1		00		0. 00 4	) 0 0 1			0. 0	0. 00 2	0. 0 00 0 1 5	0. 0. 00 3	0. 00 4		0. 0 0 1	0 0			0. 0		0.	0 0 (0 1	00 00		0.
9	2 0. 00 3		0. 00 4					0 0. 0 01 4		) 00 0. 4 00 4		0. 00 4	0. 00 1	0. 00 1	0. 00 2	0. 00 2	0. 00 1	0. 00 00 3	0.0	0. 00 1	0. 00 3	0. 00 5	0. 00 4	0. 01 4	0. 00 2	0. 00 0 1	 0 0. 00 1	0.	0.	0. 0	0. 00 1	0. 00 4	- 0. 00 8	). 0 01 0 1 1	0. 00 1	0.00	0. 0	0.	0. 0	0. 0. 0	0. 0	0. 00 4	0 0 0 0 5	0 0 0 1	0. 0. 0. 3	0. 00 2	0. 0		0.	0. 0	0. 0.	0. 00 1	0. 00 1
9	3 0. 00 6	00		00	00	1 (	- 0. 00 4	0. 0 00 0 4 4	1 0	). 0. 01 00 1 1	0.00	0. 01 4	0. 00 4	0. 00 3	0. 00 7	0. 00 1	0. 00 2	0. 00 00 1	0. 0 00 1	0.00	0. 00 6	0. 00 2	0. 01 4	4	0. 0 00 0 5 3	0 0	0.0	0.	0. 00 1	0. 00 2	0. 00 1	0. 01 1	- 0. 00 4	) 00 0 4 0 8	0 00	0.		0.	0 0 0 0 0 2	0. 0. 00 1	0. 00 1	0. 00 5	- 0. 00 4	0 0		0. 00 1	0. 0			0. 0		0. 00 1	0. 00 1
	0 0. 1 00 2			6	0. 00 3	0. 01 1	0. 00 1	0 0 0 0 4	0 0 4	0. 01 01 4	1 0. 00 4	0. 00 3	- 0. 00 7	0. 00 1	0. 00 2	0. 00 2	0. 00 1	0. 00 4 0 1	0. 0 00 1	0.	0. 00 1	0. 00 1	0. 00 2	0. 00 6	0. 00 4	) 01 0 0 5	. 0. 0 00 3	0. 00 1	0.	0. 0	1			). 0 00 0 1 1	1 0. 0. 0. 8	$\begin{vmatrix} 0.\\00\\4 \end{vmatrix}$			0. 0		0. 0	0. 00 2	0. 00 0 1 1	. 0. 0 00 5	0. 0. 0. 3	0. 00 4	0.	0.		0. 0		0.	0. 00 1
1	0 0. 9 0. 4	0. 00 4	0. 00 2	0. 00 3	00	4	- 0. 00 1	). 00 0 0 1	1 4	0. 01 00 4	0. 00. 00. 1	0. 00 1		0. 00 2	0. 00 1	- 0. 00 7	0. 00 3	0. 01 0 4 0 4	0.00	0. 00 1	0.	00		0. 00 3	0. 01 4	0. 00 0 0 2	0 0. 0 00 6	0.00	0. 00 2	0. 00 1	0.		00 (	0 0 0 0 4	0 0. 00 1	01			0. 00 1		0.	0.	0. 0	. 0.	$\begin{bmatrix} 0. \\ 0 \end{bmatrix}$	-	- 0.	-		0. 0		0.	0. 00 1
1	1 0. 2 00 2	0. 00 4	0. 00 4	0. 00 3	0. 00 2	0. 00 6	- 0. 00 1	) 00 0 6 0 6	0 0 0	0. 0. 00 0. 5 2	- 0. 1 01 2	0. 00 7	0. 00 5	0.	0. 00 1	0. 00 1	0.	- 0. 00 5	0 0	0.	0. 00 1	1	0. 00 6	00	0. 00 6	0.00	0. 0 00 1	0.	0.	0.	0.	0. 00 1	0. 00 5	0. 00 04 4	0. 0 00 5	0.00	0.	0.	0. 0		0. 00 1	0. 00 6	0. 0 0 0 2		0 0.	0. 00 6	0. 00 1	0		0. 0	0. 0.	0. 00 1	0. 00 1
1 2	1 - 0. 00 5			0. 00 3		0. 00 4	0. 00 00 1	0 0. 00 2	0 0	0. 00 1 4	1   0.	0. 00 6					0	0 01 0 4 0 8	0	0.	0. 0	0. 00 2	0. 00 4	o. l	0. 01 4	0. 0 0 0 4	0 0				0.	0. 00 1	- 0. (0 00 (0 7 4	0 0. 00 4	 0 0. 00 1	0.005	0. 00 1	0.	0. 0 0 0 1	0 0	0. 00 1	0. 00 7	0. 00 1 0 3	0 2	0. 0 00 6	0. 01 1	0. 00 3	00	0. 00 2	- 0. 00 1	). 0. 0	0. 00 2	0. 00 1
1 2	2 - 5 0. 00 1	0. 01 1	0. 00 1	0. 00 3	0. 00 5	0. 00 2	- 0. 00 4	0. 00 0 4	0 0 0 2	) 00 0. 2 00 4	0. 01 0 4	0. 01 4		0	0. 00 1	0.	0. 00 1	00   0	0.0	0.	0. 0	0. 00 4	01	0. 00 4	0. 00 4 03	0. 00 00 2	0.0	0.	0. 0	0. 0	1	0. 00 5	- 0. 00 2	) 00 0 1 0 4	0   00	0.	0. 00 1	0.	0 0 0 0 1	0.0	0. 00 3	0. 01 1	- 0 0. 0 00 2 1	 0 0. 00 3	0 6	0. 00 7	0. 00 1	0. 00 1	0. 00 2	0. 0	) 0. 0. 0( 1		0. 00 1
1	3 - 0. 0. 00 3	0. 00 2	0. 00 4		0. 00 4	0. 00 1	6 (	 0. 0 00 0 6 6	0 6	0. 00 5	 0 0. 00 7	0. 01 2	01			0. 0		0. 0 0 0 1	0 00	0. 00 1	0. 00 7	00		0. 00 6	0. 00 1	0. 0	. 0.	0.	0. 0	0. 00 1	0. 00 5	0. 00 4	0. 00 4	). 0 00 1 5	0 0	0.	0. 0	0.	0. 0	0 0	0. 00 2	0. 00 2	- 0. 00 6		0 0	0.	0. 0	0. 0	0.		0. 00 00 1		
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18 - 30 (0	0 0	. 0 0 0 3	0. 0 01 1	0. 00 1	0. 00 4		- 0. 00 00 2	0 4	0. 00 0	0. 00 1	0.	0. 00 1	0. 00 1	0. 00 6	0. 00 4	0. 01 4 6	0. 00 00 4	0. 00 4	0. 00 3	0. 00 2	0. (	0. 0		. 0. 00 4	0 0 4	0. 01 4	0. 00 4	0. 00 4	- 0. 00 1	0. 00 0	0.	0. 00 1	0.	0. 00 5	- 0. 00 2	0. 0. 00 0. 00 3	0. 00 6	- 0. 00 1 1	0. 0 00 1	0. 0	0.	0.	- 0. 00 1	).   - 0   0 0 3	0 0	- 0. 1 00 1	0. 00 2		- 0. 00 0 7 2	0.00	0. 00 1
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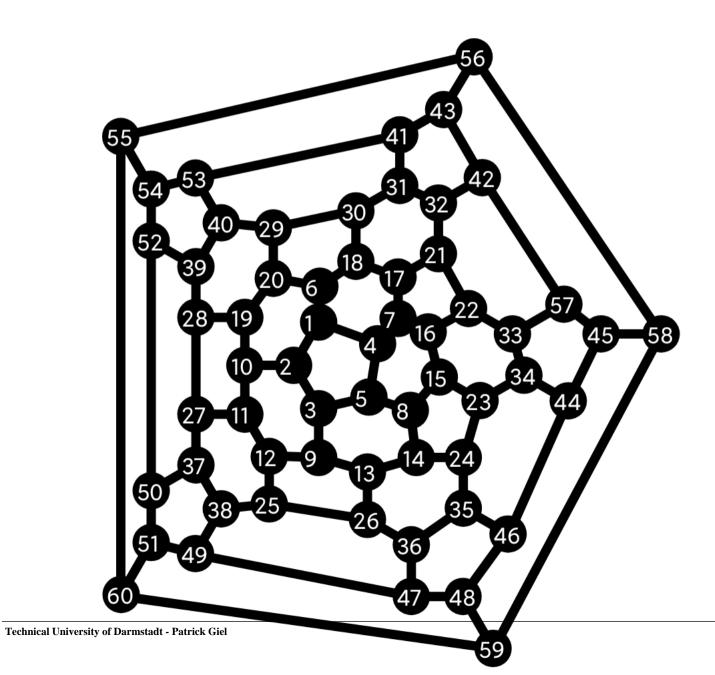
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28 39	00 (	). )0 5	0. 00 1	0. 0	0 0	0. 00 0 2	0 0	0. 00 1	0 (	. 0. 0 00 7	0.	0. 00 1	0.	0.	0. 0		00	0. 00 00 4	0.00	0. 0	0. 0	0. 0. 0. 6	). 00 5	0.	0. 01 2	0. 00 4	00	0. 00 6	0. (0	0. 0		0. 00 1	0. 00 4	0. 00 2	0. 01 2	- 0. 00 5	0.00	0. 00 1	0. 0		.   - 0. 00 1	0.	0. 00 3	0. 00 4	2	0. 0 00 0 6 7	).   C 0.   C 00   C 7   7	). [0	0.00	0.		0 (	0. 00 6
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31 32	- 0. 00 7	). )0 1	0. 00 00 1	- 0 0. 0 00 1	). 00 0	- 0. 0 00 0 3 3	. 0. 0 00 2	0.00	0.0	0.0	0.	0.	0.			0. 00 4		0. 00 00 6	0. 00 4	0. 00 2	- 0. 00 00 2		0 0	 0. 00 1	0. 00 2	0. 00 2	0. 00 4	0. 01 4	0. 01 4 (1	). 0 01 01 1		0.	0.	0.	0. 00 1	- 0. 01 4	0. 00 4	0. 01 4	0. 00 00 3	- 0. 0 00 0 5 1	0.0	0. 00 1	0.	0. 00 1	0. 00 1	0. 00 00 3	). 0. 0 00 0 1 5	0 0 0 4	0. 0. 00 8	0. 00 1	0. 00 4	0. 0	).

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33 34	0. 00 1	0. 00 1	1	- 0. 00 7	). ( ). ( )0 ( 7 (2	0. 0 00 0 2 3	0. 0 00 3	0. 00 2	00		0.	0. 00 1	0. 00 6	0. 0 00 0 4 4	00 0	). 00 0 1	0 0	0.		0. 00 4	- 0. 00 2 4	). 00 2	0. 00 00 1	0 0 0	0.0	0. 00 1	0. 00 2	0. 00 1	0. 01 1	0. 01 4	0.   - 01   0 4   0 1	. 0 1 0 1	0.0	0.		0 0 0 0 3	0. 00 00 1	0. 00 5	0. 00 4	).   - )1   0 4   0 1	. 0. 0 00 3	0. 00 5	0. 00 1	0.	0. 00 1		0. 0. 00 1	0 0	. 0. 00 4	0. 00 4		0. 00 4	1.
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34 44		0. 0	0. 00 2	- 0. 00 1 2	00 (		0. 00 0		0. 0			0. 00 7	0. 00 3	0 00 0 2 0 1		). 00 00 1		0.	0. 00 5	0. 00 1	- 0. 00 4	). )0 1	0. 00 1 7	0.00	. 0.	0.	0. 00 1	0. 0		0. 00 4	0. 01 0 4	 0 0 0 0 3	0.0	0. 00 2		0. 0	).   - 0.   0. 00 8	0. 00 4	0. 01 4	). 00 0 4 0 4	0. 00 6	0.00	0. 00 1	0. 00 1	0. 00 2	0. 0	0 00 0. 1 0. 1	. 0 0 0 0 3	. 0. 0 00 5	0. 01 4		- 0. 0. 01 01 1	0
35 36	5 - 0. 00 1	1	0. 00 7	0. 00 1	). (0 )0 [1	0 00 0 1 0 2	0. 0 00 3	0. 00 3	0. 00 2	0. 00 1	0. 00 6	00	00	0. 0 00 0 5 1	).   0 00   0	0. 0	. 0.		0. 00 1	0. 00 2	0. 00 2	). (0). (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	0. 00 2 4	). 0 00 0 1 2	. 0. 0 00 1	0.	0.	0. 0		00 0	0 0. 01 4	. 0 1 0 4		0. 01 1		0. 0	) 0. 00 1	0. 00 1	0. 00 1	0 0. 00 4	. 0. 0 00 4	0. 01 4	0. 00 1	00	0. 00 5	0. 00 1	0. 0. 0. 0. 1			0. 00 3	0. 00 4	- 0. 00 4 8	00
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36 47	0. 0			0. 00 00 1	). )0	0. 0	0.	0. 00 6	0. 00 1	0. 00 7	0. 00 3	0. 00 2		). 0 00 0 3 1		0. 0	.   - 0. 0( 1		0.	0. 00 1	0. 00 00 5	). (0). (1) (1)	0. 00 4 4	). 00 00 1	0.00	0.	0.	0. 0		0 (	0. 00 0 4	0 0	1 0. 00 3	0. 00 4	0. 00 2	0. 0	0. 00 1	0. 00 1	- 0. 00 8	0. 00 0 4	1 0. 01 4	0. 00 4	0. 00 4	0. 00 6	0. 00 2	0. 00 1	0. 0. 00 00 1 2	0 0	. 0. 0 00 3			0. 00 00 1	
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37 50			0. 00 2		. ( ). ( )0 1	0. 00 0		0. 00 1	0. 00 6	00	01	0. 00 3	0.	0. 0	). (C) (C) (1	0 0	. 0. 0 00 3	00		0.	0 (	). )0 ( 1 (	0. 00 00 1	0   0	0. 00 4	0. 00 7	0. 00 1	0. 00 2		0. (	0. 0	. 0	0   01	0. 00 4	4	- 0. 00 1 3	0 00 0. 00 1	0. 00 2	0. 00 1	0 0 0 0 1	 0. 00 8	0.004	0. 01 4	0. 01 4		0. 00 4	0. 0. 00 0 5 2	 0 0 0 0	. 0. 1 00 1	)	00	 0. 0 00 0 5 1	0
38 49	0.	0. 00 2			). (0). (1) (0) (1)	0. 0	00	0. 00 6	0. 00 1	0. 01 1	0. 00 2	00	0. 00 7	0 0. 0 00 1	). (0 )(0 )	0. 0	 0. 00 3	00			0. 00 1	00 [0	- (0 0). (0 4) 4	) 00 0 1 0	. 0. 0 00 5	0.	0.	0. 0	0.	(	0. 0 00 0 2 3	0   4	0. 0 00 4	0. 01 4	0. 00 4	0. 0 0 0	0. 00 0	0. 00 1	0. 00 1	00   6	 0 0. 00 4	0.00	0. 01 4	0. 01 4	4	0. 00 8	0. 0. 0. 4	 0 0 0 5	. 0. 0 00 3	0. 00 1	0. 00 1	 0. 0 01 0 1 1	
39 40	0.		0. 00 1	0. 00 1 1	). ( )0 ( ]	0. 0 00 0 3 2	0. 00 1	0. 00 2	0. 00 3	0. 00 6	0. 00 1	0.	0. 0	0. 0	). (C ) (C 1	0 0	. 0. 0 00 4	00	0. 00 2	0. 00 1		(	0. 0 00 0 2 1	0 0 0 2	 0 0. 00 4		0. 00 2		0. 00 1	0. 0	0. 0	. 0				0. 01 4 01	0. 00 00 3			). 0 )0 0		0.00	0. 00 3	0. 00 1	0. 00 5	0. 00 4	0. 00 0 4	 1 0 0 8	0. 00 4	0. 00 1	0.	0. 0 0 0 4	
39 52	0. 00 2		0. 00 2			0 0. 0 1	0. 0	0. 00 1	0. 00 6		- 0. 00 7	0.	0. 00 1	0. 0	).  - 0   0 0   1	0. 00 00 3	0. 00 2	0. 01 1		0.			- (0 0). (0 00 1 7	0. 0 0 0 4		0. 00 1	0. 00 5	0. 00 4	0.		0. 0		0. 00 4	0. 00 3		0. 00 4 6	0.00	0. 00 4		). 0 00 0 1 1	0. 00 1	0. 00 2			0. 00 2		0. 01 04 4		. 0. 0 00 5	0. 00 1		- 0. 00 0 1 1	

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	0. 00 1	0. 00 2	0. 00 1	0. 00 2	0	00	0. 00 0	0. 0	0. 00 1	0. 00 3	0. 00 1	0. 0	0. 0	0. 00 1	0. 00 1	- 0. 00 7	0. 0. 00 0 3 1	0.00	- 0. 00 7	0. 00 1	0. 0.	0. 00 1	0.	0. 00 5	0. 00 1	0. 00 4	0. 00 4	) 00 0 1 0 3	0. 0 00 2	0.	0.		0. 00 4	0. 00 4	0. 01 4	0. 0. 00 6	0. 00 2	0. 00 1	- 0. 00 2	0. 0. 0. 1	0. 00 1	0.	- 0. 00 8	00	0. 01 4	0. 01 04 4	 0 0. 00 1	0. 01 1	0. 00 1	0. 0. 00 00 1 3	. 0. 0 00 5
41 43	- 0. 00 1	0. 0		0. 00 1		- 0. 00 3	0. 0		0. 00 1			0. 0	0. 0	0. 00 1	0	0. 00 4	0. 00 00 5	0. 00 1	00 8	0. 00 4	0. 0. 0 1		0.		0. 00 1	0. 01 1	0. 00 1	0 0	1 0.	0. 00 3	0. 00 1	0.	0 00 0. 1 00 1			0. 01 00 4	0. 01 4	0. 00 1	- 0. 0 01 0 1 2	0. 0. 00 00 2 2	0.00	0. 00 1	0. 00 7	- 0. 00 7	0. 00 00 3	0. 0. 00 4	0. 0 00 4		- (0 00 2 1	0. 0. 00 00 2 6	0 0.
41 53	0. 00 1	0. 00 1	0.	0. 00 1		0. 00 3	0. 0	0. 0			0.	0.	0.	0.	0. 00 1	0. 00 6	0. 00 00 2	0. 00 2	0. 00 5	0. 00 1	0. 0.	0.	0.	0. 00 1	0. 00 5	0. 00 4	0 00 0 4 0 6	). 0 00 0 5 7	0. 00 1	0. 00 1	0.	0.	0. 0. 00 00 1 1	- 0 0. 00 7	00	 0. 0. 01 00 2 7	0. 00 6	0	0. 00 6	0. 00 00 1	0. 00 1	0.	0. 00 5	0. 00 6	0. 0 00 0 7 2	0. 0. 01 00 2 6	0 4	0. 00 4	0. 00 5	0.   - 00   0. 2   00 3	0. 00 2
42 43	0. 00 1	0. 0	0.	0. 00 1		(	0. 0 00 0 3 1	0.0	0.	0.	0.			0. 00 2	00	- 0. 00 5	0. 00 00 1	0 0	0. 00 1		) 00 0. 1 00 2	0.	0. 00 1		0. 00 1	4	- 0 0. 0 00 4	0. 01 0 4	0. 0 00 2	0. 00 6	0. 00 1	00	- 0. 00 1	0. 00 3	- 0. 00 5	0. 00 01 4	0. 01 4	0. 00 3	0. 00 4 00 7	0. 00 1	0. 00 7	0. 00 2	0. 00 2	0. 00 1	0. 0 00 0 1 1	0. 0. 00 0 1 1		0. 00 4	- (0 00 4 4		0. 00 6
42 57	0. 00 1	0. 0	0. 0		0. 00 1	(	0 0 0 0 3	0. 0	0.	0.	0.	0.	00	00	0. 00 2		0. 00 6	0. 00 1	0. 00 4	0. 00 4	0. 00 00 1	0.	0.		0.		0 00 0 5 0 7	). 0 00 0 7 6	. 0. 0 00 6	0. 00 7	0. 00 1	0. 00 1	0. 0. 0.	0. 00 1	0. 00 1	0. 0. 00 0: 7 2	- 0. 00 6	0. 00 7	- 0. 00 5	0. 00 0	0. 00 6	0. 00 1		0. 00 1		0. 00 00 6		0. 00 4			 0 0. 00 3
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44 45	0.	0.	0.	0. 00 1	0. 00 1	0. 0	) 0 0 0 3	0. 0 00 1	0	0.	0.	0. 00 2	00	- 0. 00 5	00	0. 0	0. 00 1		0. 00 4	0. 00 8	). 0. 0. 0. 00 01 1 1	0. 00 2	0. 00	0.	0.				0.		0. 00 2	0. 00 6	- 0. 0. 00 1	0. 0	0. 00 1	0. 00 00 1	0. 01 1	0. 01 4	4 (0	0. 00 00 3	0.	- 0. 00 7	0. 00 1	- 0. 00 7	0. 00 00 2	00 1	0. 0 0 6	0. 00 2	0. 00 4	- 0. 00 4	 0 0. 00 3
44 46	0.	0.	0. 00 1	0. 00 1	0. 00 1	0. (	) 0 0 0 3		0.		0. 00 1	0. 00 6	0. 00 2	0. 00 2	0. 00 6	0. 00 1	0. 0.	0.	0. 00 1	0. 00 5	0. 00 00 4	0.		0.	0. 0	0.	$\begin{bmatrix} 0 & 0 \\ 0 & 0 \end{bmatrix}$	). 0	0 0.	-	- 0. 00 6		0. 00 00 1	0.0	0. 0	0. 0. 0 00 5	0. 00 6	01	- 0. 0 00 0 6 2	). 0. 01 00 2 7	0. 00 6		0.	00	0. 00 1	0 00 0. 1 00 1	. 0. 0 00 3	0. 00 2	- (0 0. (0 00 4 7	0. 00 00 4	
45 57	0.	0.	0.	0. 00 1	0. 00 1	0. 00 00 1	0000	0.0	0.	0.	0.	0. 00 1		0. 00 4	0. 00 5	0. 00 00 1	- 0. 00 2		0. 01 1	0. 00 1	0. 0. 00 4	0.	0. 00 1	0.	0. 00 1	0. 00 2	0. 00 1	0. 00 0 0 2	0. 0 00 4	0. 01 4	- 0. 00 5	0. 00 3	0 0 0. 0. 0. 1		1 (	0. 00 00 3 4	0.00	0. 00 4	0. 01 01 01 01 01	0. 00 00 1	- 0. 01 1	0. 00 2	0. 00 2	0. 00 1	0. 00 1	 0. 0. 00 0 7 7	. 0. 0 00 3	0.00	0. 01 4	- 0. 00 2	0. 0 00 6
45 58	0.	0. 0	0. 0	0. 0	0.	0. 0	0. 00 0 1	0.0	0.	0.	0.	0. 00 1	0. 0	0. 00 1	0. 00 1	0. 0	0. 00 1	0.	0. 00 6	0. 00 5	). 00 5 6	0. 00 1	0. 00 1	0.	0	0. 00 1	0. 0 00 0 1 3	00 2	0 0 0 0 7	0. 00 7	0. 00 2		0. 00 1		0	0. 00 00 2	00 (	0. 00 6	- 0. 01 4	0. 00 00 2	0. 00 4	0. 00 6	0. 00 1	0. 00 5	0. 00 1	0. 00 5 5	 0 0. 00. 7	0. 00 6	0. 00 00 6	0. 0. 01 00 2 6	0 00
46 48	0.	0. 0	0. 00 1		0. 00 1				0.	0. 00 1	0.	0. 00 4	0. 00 5	0. 00 1	0.	0. 0	0. 0.	0.	0. 00 2	0. 00 1	.   - 0.   0. 01   00 1   1	0.	0. 00 8	0. 00 1	0.	0.	0. 00 1 0 1	0 0 0 1	0. 0 00 6	0. 00 2	0. 00 4	4	0. 0. 0. 0. 0. 0. 3 5	00 0	0. 0	0. 00 0. 0. 0. 7	0. 00 7	0.	0. 00 4	0. 01 00 4	0. 01 4	0. 00 1	0. 00 1	0. 01 1	0. 00 00 2	0. 0. 00 1	0 0 6	0. 00 3	- (0 00 4 3		0. 00 2
	0.	0. 0	0. 00 1	0		0. 0	0. 0	0. 00 3	0. 00 1	0. 00 2	0. 00 1	0. 00 5	0. 00 4	0.			0. 0.		0.	- 0. 00 1	) 00 0. 1 00 8	01	0. 00 1				0. 0	0 0	0. 0 00 3				0. 00 6 00 2		0. 00 1	0. 0. 00 00 2 2	) 1	0. 00 1	- 0. 01 4	0. 00 01 4	0. 01 4	0. 00 4	0. 00 3		- 0. 00 1 7	0. 00 0. 0. 0. 7	0. 0. 0. 3		- 0. 00 1	0. 00 0. 0. 0. 0. 0. 4	
47 49	0.		0. 00 1	0	0. 00 1	0. 0	0. 0	0. 00 3		0. 00 6	0. 00 2	0. 00 2	0. 00 6	0. 00 1	0.	0. 0	0. 0. 0 00 1	0.	0.	0. 0	0. 00 00 5	0.004	0.004	0. 00 5	0. 00 1	0.	0. 0	0 0	0. 00 1	0. 00 1	- 0. 00 7		 0. 0. 00 00 7 6		0. 00 1	0. 00 1 00 1			0. 00 6	0. 00 01 2	- 0. 00 6	0. 01 2	0. 00 7	0. 00 6	0. 00 5	0. 0. 0. 0. 6		0. 00 00 3	0. 0	0. 00 00 2	0. 0 00 4

	1	2	3	4	5	6	7 8	8 9	10	11	12	13	14	15 1	16 1	7 18	19	20 2	1 22	2 23	24	25	26	27 2	8 29	30	31	32	33	34 3	5 36	5 37	38	39 4	40 4	1 42	43	44	45 4	16 47	7 48	49	50	51	52 5	53 54	55	56	57	58 5	9 60
48 59	0. 0	0. 0	0. 0	0. 0	0.	0. 0	). 0 0 1	0. 00 00 1	0.0	0. 00 1	0.	0. 00 1	0. 00 1	0. 0 0 0	0. 0.	0.		0. 0. 0. 0. 1	0. 00 1	0. 00 6	0. 00 5	0. 00 6	0. 00 5	0. 0. 00 1	0 0	0. 0	0. 00 1	0. 0	- (0 0. (0 00 2 3	0 00 0. 2 00 7	- 0. 0 00 7	0. 00 3	0. 00 2	0. 0 0 0	0. 00 00 1	0. 0 00 6	0. 00 5	0. 00 4	0 00 0 4 0 6	- 0. 0. 00 00 6 6	0. 01 2	0. 00 4	00	0. 00 4	0. 00 6	0. 00 5	0. 00 7	- 0. 00 7	0. 00 2		1 0. 00 6
49 51	0.	0. 00 1	0. 00 1	0. 0		0. 0	) 0 0 1	). 0. 00 00 3	n l	00	- 0. 00 5	0. 00 1	0.	0. 0	0. 0.		0.	0. 00 1	0. 00 1	0. 00 2	0. 00 1	0. 00 1	0. 01 1	0. 0. 00 4 8	 0 0. 00 1	0.	- 0. 00 1	0.	0. 00 1	0. 00 00 1 6		0. 01 4	0. 00 4	- 0. 00 5	0. 0. 00 00 3 2	0. 0 00 2	0. 00 1	0. 00 7	 0. 0 00 0 7 3	). 0. 00 00 3 4	0.004	0. 01 4	0. 00 4	0. 01 4	0. (0. (0. (0. (0. (0. (0. (0. (0. (0. (	00 01	2		1	00 4 3	 0 0. 00 4
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	1	0. 00 1	0. 00 1			0. 0			0.	) 2	0. 00 6			0. 0	0. 0.	0. 00 1	00	0. 00 6		0.	0.	0. 00 5	0. 00 1	0. 00 4 0 4	0 0 5	0. 00 1	0. 00 1	0. 00 1		0. 0 00 1	0. 0 00 1	0. 00 6	00	0. 0 00 0 6 7	0. 0. 00 5	0.0	0. 00 6	0. 00 1	- 0. 00 1	0. 0 0 5	0.006	- 0. 00 7	0. 01 2	0. 00 6	0. 0 01 0 2 7	). 00 00 6	0. 00 4	0. 00 2	1	- 0. 00 2	0 00
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52 54	00 1	0. 00 1		0.		0. 0		0.	0. 0. 0. 0. 3	0. 00 1	0. 00 2	0	0.	0. 0	0. 0. 0. 1		0.	0. 00 0 4 0 1	0.	0.	0. 00 1	0. 00 1	0. 00 2	0. 01 01 1	0. 0. 0. 8	0. 00 4	0. 00 5	0. 00 3	o. To	0. 0 0. 00 1	0. 00 1	0.00	0. 00 6	0. 00 4	) )1 0. 4 00 1	1 1	01	0. 00 2	0. 00 1	).   - 00   0. 00 7	0. 00 7	0. 00 3	0. 00 4	0. 00 4	0. 01 4	0. 00 1 4	0. 00 4	2	0. 00 2		0. 00 4
53 54	0. 00 1	0. 00 1	0.	0. 0	0	0. 0 00 0 3 1		0. 0.	0.0		0. 00 1			0. 0	) 0. 0. 0. 2	0.00	0. 00 4	0. 0. 00 1	0.0002	0. 00 1	0.	0. 00 1	0.	0. 00 4 0 8	0 00	0. 01 1	0. 00 2	0. 00 6	0. 00 1	0. 0. 00 1	0. 00 1	0.005	0. 00 3	0. 01 4	). 00 0. 00 4	0. 0 00 3	0. 00 4	0. 00 1	0. 0 00 0 7 2	0. 0. 00 00 2 2	0.00				0. 00 4	0. 01 01 4	0. 00 4	0. 00 4	0. 00 7	- 0. 00 6	0. 0 00 2
54 55		0.	0.	0. 0		0. 00 1			0. 00		0. 00 1		0.		0. 0. 0. 1	0.	00	0. 00 1 00 1	0.	0.	0.	0. 00 1	0. 00 1	0. 00 6 0 5	0 0 5	0. 00 6	0. 00 2	- 0. 00 3	0 0	0. 00 1	0.0	0. 00 2	0. 00 3	- 0. 00 7	0. 0. 00 4	.  0. 0  00	$\begin{vmatrix} 0.\\00 \end{vmatrix}$	0. 00	0. 00 5	).  0. )0  0(	$\begin{bmatrix} 0.\\00 \end{bmatrix}$	0. 00 2	0. 00 4	4	0. (0 00 (0 6 (6	). 0. 00 01 5 2	0. 01 2	0. 00 6	0. 00 6		0 00
55 56	0. 00 1	0. 0	0.	0. 0	0	- 0. 00 1	0. 0	0. 0.	0.0	0. 00 1	0	0.	0.	0 [0	0. 0. 00 00 1		0. 00 2	0. 00 1 00 1		0. 00 1	0. 00 1	0. 00 1	0. 00 1	0. 00 00 1	 0 0. 00 7	0. 00 7	0. 00 3	0. 00 6	00 0	0. 0. 00 3		0. 00 1	0. 00 3	0. 00 6	0. 00 00 4	0. 00 2	00	0. 00 5	- 0. 00 4 1	0. 00 4	0. 00 8	0. 00 5	0. 01 1	0. 00 1	0. 00 2	). 00 0. 00 4	0. 01 4	0. 01 4		0. 00 4 0 4	0. 1 00 4
55 60	0. 0	0. 00 1	0.	0.	0.	0. 0	0 0	0. 0.	0. 00 1	0.	0. 00 2	0.	0.	0. 0	0. 0.	0.	0. 00 1	0. 0. 00 0. 2 1	0.	0. 00 1	0. 00 1	0. 00 1	0. 00 2	0. 00 00 7		0. 00 2	00		0. (	0 0 0. 00 3	0. 0 00 1	0.00	6	- 0. 00 6	) 00 0. 5 0: 1	1 00	0. 00 1	0. 00 4	 0. 0 00 0 8 5	0. 0. 00 01 5 1	0. 1 00 1	0. 00 2		0. 00 4	0. 00 4	) 00 0. 00 4	0. 01 4	0. 00 4	0. 00 4	0. 01 0 4	0 01
56 58	0. 0	0. 0	0.	0. 00 1	0.		000	0. 0.	0.0	0.	0.	0.	0. 00 1	- 0. 00 1 2	0. 00 00 1		0.	 0. 0 00 0 1 7	- 0. 00 7	0. 00 1	0. 00 2	0. 00 1	0. 00 1	0. 00 1 0 1	. 0. 0 00 2	0. 00 1	0. 00 6	00	- 0. 00 3	0 00 0. 6 00 1	0. 0 00 3	0.		0. 00 00 3	0. 0. 00 2	0. 0 00 4	0. 00 4	2	0. 00 0 4 1	). 0. 01 00 5	0. 00 1	0. 00 4	0. 00 4	00	0. (0. (0. (0. (0. (0. (0. (0. (0. (0. (	). 0. 01 00 1	0. 00 4	0. 01 4	0. 00 4	0. 01 0 4	0. 0 01 4
58 59	0. 0	0.	0.	0. 0	0. 00 1	0. 0	0 0	0. 0.		0.		0. 00 2		1 (	0. 0. 00 00 2 1		0.	0 0 0 0 2	) 1	0. 00 7	0. 00 7	0. 00 2	0. 00 1	- 0 0. 0 00 1	0 0 1	0. 00 1	0. 00 3	0. 00 1	6 (	0. 0. 00 00 3 3	0 6	0. 00 3	0. 00 1	0. 0	) 0. 0. 5	- 0. 0 01 1	0. 00 1	0. 00 4	- 0. 00 4	0. 00 00 2	0. 00 4	0. 01 1	0. 00 5	0. 00 1	0. 00 4	). 	0. 01 4	0. 00 4	0. 00 2	0. 01 0 4	0. 1 00 4
59 60	0. 0	0. 0	0. 00 1	0. 0	0.	0. 0	0 0		0.0	0.	0. 00 1			- 0. 00 1	0. 0.		0. 00 1	0. 0	0. 00 1			0. 00 7		0. 00 1 0 2	0. 0. 0. 1		0. 0	0.	0. 00 3	0. 0. 00 6	0 0 0 0 0 3	0.	0. 00 00 3	0. 00 00 1	0. 0. 00 4	0. 0 00 4	0. 00 8	0. 01 1	- 0. 00 2 1	0. 00 00 4	0. 00 4	0. 00 4	0. 00 2	0. 00 4	0. (0. (0. (0. (0. (0. (0. (0. (0. (0. (	). 00 00 1	0. 00 4	0. 01 4	0. 00 5	0. 00 4 0 4	0. 1 01 4

## 7.2. Presentation of molecule:



## 8. Bond-Bond-Polarizability

## 8.1. Calculated values:

$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 8 9 9 0 1 1 1 2 3 3 4 5 5 6 3 0 0 8 9 2 2 3 4 4 5 6 8 6	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 8 9 9 0 1 1 1 2 2 3 4 4 5 5 6 7 4 4 5 5 5 4 5 5 4 5 5 6 7 8 8 8 8	4 4 4 5 5 5 5 5 5 5 5 5 5 5 5 5 7 8 9 0 0 1 2 3 3 4 5 5 6 8 9 9 4 5 5 5 5 5 6 5 5 5 6 5 5 6 6 8 9 9 1 1 2 0 4 4 5 6 0 8 9 0 0 8 9 0
1 0 2 . 3 3 3 1 1					
1 - 0 4 0 . . 3 1 3 0 1 7					
1 0 6 0 0 . 2 1 1 4 2 2 8 2 2 2					
2 - 0 0 0 0 3 0 . 0 0 3 1 1 3 3 0 7 1 1					
2 - 0 0 - 0 1 0 0 . 0 . 0 0 . 2 1 3 4 1 4 2 1 7 2 8 2					
3 0 0 0 0 0 5 0 0 0 0 3 1 1 0 1 3 3 7 7 1 0 1 1 1 5 7					
3 0 0 - 0 9 . 0 0 0 . 0 . 0 0 . 2 3 0 0 1 4 1 4 1 1 0 2 7 2 8 5 7 2 2					
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$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 1 1 1 1 1 1 1 1 0 1 1 2 3 3 4 5 1 1 2 2 1 2 2 1 9 2 7 5 4 6 4 6	1 1 1 1 1 1 1 5 6 7 7 8 9 9 9 1 2 2 1 2 3 2 2 3 2 8 1 0 0 8	2 2 2 2 2 2 2 2 2 2 0 0 1 1 2 3 3 4 4 2 2 2 3 3 4 4 4 5	2 2 2 2 2 2 2 2 2 3 5 5 6 7 7 8 9 9 9 1 2 3 3 3 2 3 3 3 4 5 6 8 6 8 7 9 0 0 0	2 3 3 3 3 3 3 3 3 3 3 3 3 9 0 1 1 2 3 3 3 4 5 5 6 4 3 3 4 4 3 5 4 3 4 4 0 1 2 1 2 1 2 4 7 4 6 6 7	3 3 3 3 3 3 4 4 4 4 4 4 4 6 7 7 8 9 9 0 1 1 2 2 3 4 4 5 5 5 4 5 5 5 7 8 0 9 0 2 3 3 3 3 7 6 5	4     4     4     4     4     4     4     5     6     8     9       4     5     5     5     5     5     5     5     5     5     5     5     5     5     5     5     5     6     5     5     5     6     5     5     6     5     5     6     6     0     8     9     0
4 0 - 0 0 0 7 . 0 . 0 0 0 . 0 0 . 0 . 0 . 0 2 2 3 1 4 0 0 3 0 1 4 1 2 7 1 0 1 0 2 8 2 5 7 7 2							
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6 0 0 0 0 0 0 0 2 . 0 0 0 0 0 0 0 0 0 3 8 0 1 0 0 0 1 0 1 0 1 3 3 1 2 2 3 4 4 3 1 0 0 1 4 4 2 5 8							
7 0 - 0 0 0 0 0 0 0 0 0 0 0 0 0							
7 - 0 - 0 0 0 0 0 0 0 0 . 1 0 . 0 0 0 0 0 0 0 0 . 7 . 0 . 0 0 0 0 0 0 3 0 8 0 0 1 0 0 0 0 1 1 8 0 1 3 2 3 3 4 4 3 0 1 2 1 3 2 0 1							
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$ \begin{bmatrix} 1 & 1 & 1 & 2 & 2 & 3 & 3 & 4 & 4 & 5 & 6 & 6 & 7 & 7 & 8 & 8 & 9 & 9 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	5 5 5 5 5 5 5 6 8 9 5 6 5 5 6 6 0 8 9 0
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4       .       .       0       .       0       .       0       .       0       .       0       .       0       .       0       .       0       .       0	
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2 0 0 - 0 - 1 - 0 0 0 0 0 0 0 0 0 0 0 0 0	
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1 1 1 2 2 3 3 4 4 5 2 4 6 3 1 5 9 5 7 8	6 6 7 7 8 8 9 9 1 2 1 1 1 1 1 1 1 8 0 6 7 4 5 2 3	1 1 1 1 1 1 1 1 1 1 0 0 1 1 1 2 3 3 4 4 1 1 1 1 2 2 1 2 2 1 1 9 2 7 5 4 6 4 6	1 1 1 1 1 1 1 5 5 6 7 7 8 9 1 2 2 1 2 3 2 6 3 2 8 1 0 0	1 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 2 3 3 2 3 3 4 4 4	2 2 2 2 2 2 3 4 5 5 6 7 3 3 2 3 3 2 4 5 6 8 6 8	2 2 2 2 3 7 8 9 9 0 3 3 3 4 3 7 9 0 0 1	3 3 3 3 3 3 1 1 1 2 3 3 4 4 3 5 4 2 1 2 4 7 4	3 3 3 3 3 3 4 5 5 6 7 7 4 3 4 4 3 5 4 6 6 7 8 0	3 3 3 4 4 8 9 9 0 1 4 4 5 5 4 9 0 2 3 3	4 4 4 4 4 4 4 5 1 2 2 3 4 4 5 5 4 5 5 4 4 5 3 3 7 6 5 6 7	4 4 4 4 4 4 5 5 6 7 7 8 9 5 4 4 4 5 5 8 8 8 9 9 1	5 5 5 5 5 5 5 5 0 0 1 2 3 4 5 5 5 6 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	5 5 5 5 5 5 5 5 5 5 5 6 8 9 6 5 6 5 5 6 6 6 0 8 9 0
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2 0 0 0 0 0 0 8 0 0 0 0 0 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 0 & 0 & 0 & 0 & 4 \\ 0 & 3 & 0 & 0 & 7 \end{bmatrix}$		$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 2 4 4							
9 0 . 0 0 0 . 0 . 0 . 0 . 0 .	alah lalahaha	0 .  .  .  0 0 .  .  .		0 0 0 0 .	0 0 - 0 0 - 0 0 . 0 0 . 0 0 0 0 0 4 0 4 0 2 1	0 0 0 0  0 0 3 0 1 3 1 1 1							
<b>4</b> 0 0 . 0 . 0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 0 . 0 . 0 . 0 . 0 0 0 0 0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 0 . 0 0 . 0 . 0 0 0 . 0 1 0 0 0 0 0 3 2 1 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	- 0 - 0 0 . 0 . 0 . 2 0 4 1 4 0 7 2 8 8 2							
<b>0</b> 0 . 0 0 . 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			$\begin{bmatrix} 0 & 0 & 0 & 0 \\ 1 & 3 & 1 & 4 & 0 & 0 \end{bmatrix}$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 0 & 0 & 0 & . & . \\ . & . & . & 0 & 2 \end{bmatrix}$							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{bmatrix} 0 & . & . & . & 0 & . & 0 & . & 0 \\ . & 0 & 0 & 0 & . & 0 & . & 0 & . & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0$	0 0 . 0 . 0 0 . 0 0 . 0 0 0 0 0 0 0	$\begin{bmatrix} . & 0 & 0 & . & 0 \\ . & 0 & 0 & . & 0 \\ . & 0 & 0 & 1 & 1 & 0 \end{bmatrix}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 1 4 1 0 5	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0						
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3 - 0 0 0 0 - 0 0 - 0 0 - 2 2 0 0 0 0 2 4 . 0 0 0 0 0 0 0 0 0 0 0 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		[0]0]. [0]0]. [	0 . 0 0		0 0 .	- 0 0 0 . 0 3 1 1 3 0 7 1 7						

1 1 1 2 2 2 4 6 3 1 0	2 3 3 4 4 1 5 9 5 7	5 6 6 7 7 8 1 2 1 1 8 0 6 7	8 8 9 1 1 1 4 5 2	9 1 1 1 0 0 3 1 1 1 9	1 1 1 1 1 2 1 2 2 2 7 5	1 1 3 3 1 2 4 6	1 1 1 4 5 5 2 1 2 4 6 3	1 1 1 5 6 7 2 2 1 3 2 8	1 1 1 7 8 1 2 3 3 1 0	1 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9	1 2 9 0 2 2 8 9	2 2 1 1 2 3 2 2	2 2 2 3 3 2 3 4	2 2 3 4 3 3 4 5	2 2 5 5 2 3 6 8	2 2 6 7 3 2 6 8	2 2 7 8 3 3 7 9	2 2 9 9 3 4 0 0	3 3 0 1 3 3 1 2	3 3 1 2 4 4 1 2	3 3 3 3 3 5 4 7	3 3 4 5 4 3 4 6	3 3 5 6 4 4	3 3 5 7 7 8 6 7 8 6	3 3 7 8 5 4	3 3 9 9 4 5 0 2	4 4 0 1 5 4 3 3	4 4 1 2 5 4 3 3	4 4 2 3 5 5 7 6	4 4 4 4 4 4 5	1 4 1 5 1 5	4 4 5 6 5 4 8 8	4 4 7 7 4 4 8 9	4 4 8 9 5 5	4 5 9 0 5 5	5 5 0 1 5 6 2 0	5 5 2 3 5 5 4 4	5 5 4 5 5 5	5 5 6 0	5 5 5 6 8 9 5 5 6 8 9 0	5 9 6
3 0	$\begin{bmatrix} . & 0 & 0 & . \\ 0 & 0 & . & . & 0 \\ 0 & 0 & 0 & 1 \end{bmatrix}$	$\begin{bmatrix} 0 & 0 & - & - & 0 \\ 0 & 0 & 0 & 0 \\ 0 & 0 & 0 & 0 \end{bmatrix}$		0 0 0	0 - 0	- 0 0 . . 0 0 0	0 - 0 . 0 . 0 . 0	0 0 -		0 -	0 0 0 0	- 0 0 . 0 0 1	0 0 0 1	- 0 0 . 0 0 1 1	- 0 0 .	0 0 0 0 0	0 0	$\begin{bmatrix} - & 0 \\ 0 & 0 \\ 0 & 0 \end{bmatrix}$	0 - 0 0 0 . 0 0	0 - 0 0 0 . 0 0	0 . 3 3																				
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7 0 0 0 0 8 0 0 0 1 2 0 1 4	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 0 0 0 0 0 0 0 0 0 4 1 3	0 0	0 - 0 0 . 0 . 0 0	- 0 0 0 0 0 0	- 0 0 . 0 0	0 0 0	0 .	0 .	0 .	0 0	0 0 0 0 0 0 1	$\begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$	1010	0 1	0 - . 0 0 . 1 0 1 1 4	L 10	0 .	0 0 0 0 0 0 4	$\begin{bmatrix} . & 0 \\ 0 & 0 \\ 0 & 2 \end{bmatrix}$	- 0 0 . 0 0 0 0 0 2 2	$\begin{bmatrix} . \\ 0 \end{bmatrix} \begin{bmatrix} . \\ 0 \end{bmatrix}$	$\begin{bmatrix} 0 \\ 0 \end{bmatrix}$	0 . 3 . 3 . 2 1																	
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4       0       0       -       0       0       -       0       -       0       -       0       -       0       -       0       -       0       -       0	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
<b>6</b> . 0 0 0 0 . 0 . 0 . 0 . 0		
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	0 0 0 0 0 0 . 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 0 0 - 0 0 - 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
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	0 0 0 0 0 0 0 0 0 0 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	.   0   .   .   .   .   0   0   0   .   .	
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0 0 0 0 1 1	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	000 000	$ \begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & - & 0 & - & 0 & 0$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
6 0			00042024400		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
<b> 8</b>  .  0 .  0 .  .	0 . 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{ c c c c c c c c c c c c c c c c c c c$	.  0 0 .  .  0 .  0 .  .  0 0 0 .  .  .  0	

1 1 1 2 2 3 3 4 4 5 6 6 7 7 8 8 9 9		2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 3 3 3 3	3 3 3 3 3 3 3 3 3 3 3 3 3 3 4 4 4 4 4 4
2 4 6 3 1 5 9 5 7 8 1 2 1 1 1 1 1 1	1   0   0   1   1   2   3   3   4   5   5   6   7   7   8   9   9   0	0   1   1   2   3   3   4   5   5   6   7   7   8   9   9   0   1   1   2   3	3   3   4   5   5   6   7   7   8   9   9   0   1   1   2   2   3   4   4   5   5   6   7   7   8   9   0   0   1   2   3   4   5   5   6   8   9
0         8   0   6   7   4   5   2   3	- 1	$\begin{bmatrix} 2 & 2 & 3 & 3 & 2 & 3 & 3 & 2 & 3 & 3 &$	3   5   4   3   4   4   3   5   4   4   5   5   4   5   5   4   5   5
	1 9 2 7 5 4 6 4 6 3 2 8 1 0 0 8 9	0 2 2 3 4 4 5 6 8 6 8 7 9 0 0 1 2 1 2 4	4 7 4 6 6 7 8 0 9 0 2 3 3 3 3 7 6 5 6 7 8 8 8 9 9 1 1 2 0 4 4 5 6 0 8 9 0
5 - 0 0 0 0 0 - 0 0 0 - - 0 0 0	0 - 0 - 0 0 - 0 0 0 - - - 0 0 0 - -	0000000000000-	0 -  -  0 0 -  0 0 -  0 -  -  0 -  0 -
<b>9</b>  0 .  .  .  .  .  0 .  .  .  0 0 .  0 .  .  .	.  0 .  0 .  .  0 .  .  .  0 0 0 .  .  .  0 0	) .  .  .  .  .  0 0 .  .  .  0 .  .  .  .  0 .  .  .	.  0 0 .  .  0 .  .  0 .  0 0 .  0 .  0
<b>[6]</b> .  0 0 0 0 0 0 .  0 0 0 .   .  0 .  0	0 .  0 .  0 0 .  0 0 0 .  .  .  0 0 0 .  .	[0]0[0]0[0]0. $[.]0[0]0[0]$ . $[0]0[0]0[0]$ . $[0]0[0]$	0 .  .  0 0 .  0 0 .  0 0 .  0 .  .  0 .  0 .  .  0 0 0 .  0 .  .  0 .  0 .  0 .  10 .  20 .
<b>0</b>  0 0  $ 0 $ $ 0 $ $ 0 $ $ 0 $ $ 0 0 0 0 0 0 0$			0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	$\begin{bmatrix} 0 & 1 & 0 & 4 & 2 & 0 & 2 & 4 & 4 & 0 & 0 & 0 & 1 & 1 & 4 & 0 & 0 & 0 \\ 3 & 1 & 1 & 1 & 2 & 1 & 2 & 4 & 4 & 5 & 3 & 3 & 1 & 1 & 4 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0$	$\begin{bmatrix} 3 & 2 & 1 & 0 & 1 & 4 & 4 & 2 & 0 & 1 & 3 & 0 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1 & 1$	

## 8.2. Presentation of molecule:

