

						ene_Ψ2_N gen	e_Ψ3_N ger	ne_Ψ4_N {								site_Ψ4_					quartet_Ψ4				artet_Ψ4_N					ength_subs_per_site	
105 50.0 106* 26.6		18.18 13.33	13.64	18.18 46.67	4	2	2	7		88.82 75.92	11.18 24.08	0.00 0	2.32 1.99	0.37	0.00	0	2.689	54.48 47.85	22.98 26.18	22.54 25.96	0	11.98 7.18	5.06 3.93	4.96 3.89	0	22 15	0.94 0.72	0.03	0.03	0.0004481	1.1366000 1.1741800
107 100.0 108* 21.0		0.00 15.79	0.00	0.00 47.37	7 4	3	3	9		100.00	0.00	0.00 0 6.33 0	4.00 5.59	0.00	0.00	0	4.001 7.061	100.00 35.90	0.00 35.70	0.00	0	7.00 6.82	0.00 6.78	0.00 5.40	0	7 19	0.39	0.00	0.00	0.0057437 0.0011758	1.2574200 1.1853700
109* 26.7	79 2	27.68	25.89	19.64	30	31	29	22			43.98	33.89 0	10.59	21.03	16.21	0	47.823	32.48	34.75	32.77	0	36.38	38.92	36.70	0	112	0.28	0.43	0.29	0.0009273	0.9917420
110 79.3111 74.8		2.380.70	0.79	17.46 23.78	100	1	1	34		90.71	6.34	2.95 0 1.42 0	104.01 82.45	7.30 5.69	3.40 1.27	0	114.707 89.414	89.88	6.74	3.37 4.81	0	113.25 127.03	9.09	4.25 6.88	0	126 143	1	0.00	0.00	0.0101574	2.0128400 3.1009800
112 65.0 113* 20.4		7.77 18.18	3.88 13.64	23.30 47.73	67 9	8	6	24		93.00 71.23	6.73 26.26	0.27 0 2.51 0	41.65 7.86	3.01 2.88	0.12	0	44.788 11.031	77.71 35.37	14.55 34.52	7.74 30.11	0	80.04 15.56	14.98 15.19	7.98 13.25	0	103 44	0.41	0.00 0.37	0.00	0.0064046 0.0023124	1.8129900 0.0317468
114 28.1	17 1	18.31	9.86	43.66	20	13	7	31	71	46.26	27.97	25.76 0	9.11	5.48	5.10	0	19.683	46.44	31.41	22.15	0	32.97	22.30	15.73	0	71	0.96	0.03	0.01	0.008800	0.6084640
115* 23.2 116 60.0			0.00	28.57 33.33	13	15 2	0	16				24.64 0 1.12 0	17.95 27.80	13.36	0.34	0	41.566 29.267	36.23 77.74	35.88 12.98	27.89 9.28	0	20.29	20.09 3.89	15.62 2.78	0	56 30	0.43	0.41	0.16	0.0014630 0.0074538	0.1879990 1.2135400
117* 6.25 118* 0.00		9.38 13.64	6.25 9.09	78.13 77.27	2	3	2	25 17		43.55 28.86		25.49 0 20.59 0	4.31 2.45	3.08 4.28	2.53 1.72	0	9.925 8.459	38.13 34.93	31.48 34.23	30.39 30.85	0	12.20 7.68	10.07 7.53	9.72 6.79	0	32 22	0.51 0.37	0.26 0.35	0.23 0.27	0.0004121 0.0004371	0.9261340 0.3546410
119* 7.14	4 2	21.43	0.00	71.43	1	3	0	10	14	10.30	75.02	14.69 0	0.71	5.07	0.97	0	6.751	43.44	40.86	15.70	0	6.08	5.72	2.20	0	14	0.5	0.40	0.10	0.0002489	0.3718740
120* 14.6 121* 9.23		7.32 15.38	9.23	73.17 66.15	6	10	6	43		76.66 18.81		11.01 0 18.75 0	4.33	1.35	3.77	0	20.447	38.36	35.82 34.84	17.70 26.80	0	19.06 24.94	14.68 22.65	7.26 17.42	0	65	0.84	0.13	0.03	0.0019033	0.4161110 0.1314870
122* 23.8 123 25.5			7.14 11.70	47.62 51.06	10 24	9	3 11	20 48				21.16 0 19.42 0	5.93 25.77	5.44 17.03	3.10 10.15	0	14.471 52.957	39.58 45.31	38.60 29.49	21.82 25.20	0	16.63 42.59	16.21 27.72	9.16 23.69	0	42 94	0.49 0.97	0.42	0.08	0.0010205 0.0013284	0.1168350 0.2839240
124 18.3	31	7.04	7.04	67.61	13	5	5	48	71	51.68	25.17	23.15 0	10.55	5.22	4.75	0	20.517	52.62	26.34	21.04	0	37.36	18.70	14.94	0	71	1	0.00	0.00	0.0042223	0.4233110
125* 8.51 126* 10.0		14.89 12.50	5.00	63.83 72.50	4	5	2	30 29				20.57 0 35.37 0	2.77 4.73	6.16 11.41	2.19 8.80	0	11.125 24.933	35.99 37.38	33.40	30.61 29.46	0	16.92 14.95	15.70 13.26	14.39	0	47	0.44	0.32	0.24	0.0009669	0.1218150 0.0881123
127* 18.7 128* 24.6		25.00 18.35	9.38 16.46	46.88 40.51	6 39	8 29	3 26	15 64				28.34 0 22.37 0	3.20 26.80	6.33	3.80 11.06	0	13.326 49.461	38.66 38.92	37.96 31.16	23.38 29.92	0	12.37 61.50	12.15 49.23	7.48 47.27	0	32 158	0.46 0.82	0.42	0.12	0.0004891	0.0784018 0.8986260
129 31.2	21 1	10.98	4.62	53.18	54	19	8	92	173	54.47	25.73	19.81 0	48.58	22.99	17.70	0	89.272	56.29	23.98	19.73	0	97.39	41.49	34.13	0	173	1	0.00	0.00	0.0047607	1.1398700
130 36.0 131* 11.5		11.80 18.46	5.59	46.58 59.23	58 15	19 24	14	75 77		55.48 27.36		21.97 0 32.64 0	33.18 14.39	13.55 21.05	13.17 17.18	0	59.903 52.622	36.66	25.17 36.46	19.80 26.88	0	88.59 47.66	40.53 47.39	31.88	0	161	0.47	0.00	0.00	0.0056529	1.1029400 0.8467950
132 33.3 133* 29.0			3.17 12.73	58.73 45.45	42 32	6 14	14	74 50				19.67 0 25.46 0	33.06 18.84	18.84 20.47	12.72 13.41	0	64.616 52.716	60.55 40.99	20.01 30.70	19.44 28.31	0	76.30 45.09	25.22 33.77	24.49 31.14	0	126 110	1 0.87	0.00	0.00 0.05	0.0041062 0.0014381	1.0463600 0.7992230
134 90.9	91	6.06	3.03	0.00	30	2	1	0	33	94.08	5.89	0.03 0	67.13	4.21	0.02	0	71.365	90.91	6.06	3.03	0	30.00	2.00	1.00	0	33	1	0.00	0.00	0.0179166	1.6908900
135 88.3 136* 26.0		3.19 26.00	0.00	8.51 32.00	26	3 26	16	32		95.40 10.96	2.58 58.72	2.01 0 30.32 0	153.59 7.35	4.16 39.22	3.25 20.26	0	161.000 66.832	94.10 35.65	4.16 37.05	1.75 27.30	0	88.45 35.65	3.91 37.05	1.64 27.30	0	94 100	0.37	0.00	0.00	0.0167405 0.0002402	3.5905800 0.4030350
137* 38.0 138 21.6		21.13 10.81	14.08 7.21	26.76 60.36	27 24	15 12	10 8	19 67				19.66 0 27.39 0	11.08 15.53	14.20 17.90	6.19 12.64	0	31.463 46.063	43.49 42.30	32.47 30.85	24.04 26.85	0	30.88 46.95	23.05 34.25	17.07 29.80	0	71 111	0.88	0.08	0.04	0.0003994 0.0012719	0.3814570 0.7162910
139 82.4 140 54.8	16	1.75	0.00 6.45	15.79 22.58	47 17	1	0	9	57	97.24		0.08 0 3.22 0	80.02 14.46	2.22	0.07 0.57	0	82.306 17.187	93.07 64.14	5.71 26.27	1.22 9.59	0	53.05 19.88	3.26 8.14	0.70 2.97	0	57 31	1	0.00	0.00	0.0136898 0.0058078	2.6578600 1.7975100
141 80.6		0.00	0.00	19.35	25	0	0	6		93.59		2.56 0	13.72	0.57	0.40	0	14.688	93.48	3.96	2.57	0	28.98	1.23	0.80	0	31	1	0.00	0.00	0.0038078	2.4021500
142* 28.5 143 29.7		30.61 23.40	18.37 8.51	22.45 38.30	14	15 11	9	11		35.62 57.47	54.19 28.26	10.19 0 14.27 0	5.72 8.95	8.57 4.43	1.62 2.23	0	15.915 15.612	34.90 47.96	36.64 35.43	28.47 16.60	0	17.10 22.54	17.95 16.65	13.95 7.80	0	49 47	0.36 0.91	0.46	0.18	0.0000817 0.0004978	0.5043360 0.5093790
144* 32.8 145 79.1		23.44	20.31	23.44 18.75	21 38	15	13	15 o	64 48	1.68 80.82	86.93 11.89	11.39 0	0.35 35.40	17.68 5.24	2.31 3.23	0	20.343 43.872	39.86 89.96	34.50 7.30	25.64 2.74	0	25.51 43.18	22.08 3.50	16.41 1.32	0	64 48	0.66	0.25 0.00	0.09	0.0000010 0.0208799	0.2492380 1.8986100
146* 26.8		26.83	19.51	26.83	11	11	8	11				27.99 0	10.20	15.82	10.08	0	36.098	36.89	37.31	25.80	0	15.12	15.30	10.58	0	41	0.42	0.44	0.14	0.0208799	1.3617800
147 80.7148* 40.0		3.85 15.00	5.00	15.38 40.00	21 8	3	1	8				14.97 0 25.39 0	3.94 4.62	2.82 7.44	1.27 4.06	0	8.026 16.127	90.31 48.86	7.49 34.79	2.19 16.35	0	23.489.77	1.95 6.96	0.57 3.27	0	26	0.77	0.00	0.00	0.0093754	1.8110900 1.2748400
149 45.9 150* 14.2			2.70 7.14	43.24 32.14	17 4	3 13	1	16 9		42.61 29.73		26.77 0 24.71 0	32.56 16.45	23.41 25.12	20.48 13.66	0	76.458 55.219	60.32 27.14	23.28 55.21	16.40 17.65	0	22.32 7.60	8.61 15.46	6.07 4.94	0	37 28	0.02	0.00 0.97	0.00 0.01	0.0039746 0.0000197	0.7872960 0.4153140
151* 18.1	18		9.09	63.64	2	1	1	7	11	42.96	29.28	27.76 0	9.67	6.60	6.32	0	22.593	42.83	29.40	27.77	0	4.71	3.23	3.05	0	11	0.54	0.24	0.22	0.0016242	0.1085540
152 77.2153 100.0		0.00	0.00	9.09	17 22	0	0	0				22.08 0 4.16 0	25.66 113.39	15.42 5.19	11.67 5.16	0	52.749 123.737	100.00	0.00	0.00	0	17.92 22.00	0.00	0.50	0	22	1	0.00	0.00	0.0078715 0.0270669	1.7757000 3.5096700
154* 25.0 155 50.0			8.33 10.00	38.89 26.67	9 15	10 4	3	14 8				30.15 0 19.67 0	11.14 35.94	22.09 16.83	14.33 12.94	0	47.550 65.707	39.02 62.59	40.76 20.28	20.22 17.13	0	14.05 18.78	14.67 6.08	7.28 5.14	0	36 30	0.4	0.52	0.08	0.0007871 0.0051932	0.8325840 1.4086900
156 91.3	30	4.35	0.00	4.35	42	2	0	2	46	64.19	19.22	16.59 0	70.12	21.03	18.16	0	109.309	94.38	5.62	0.00	0	43.42	2.58	0.00	0	46	1	0.00	0.00	0.0209332	3.8952700
157 100.0158 45.6		0.00 21.74	0.00 21.74	0.00	47 21	10	10	5				0.62 0 26.09 0	324.45 33.84	4.21 26.10	2.04	0	330.695 81.131	50.00	0.00 25.15	0.00 24.86	0	47.00 23.00	0.00 11.57	0.00 11.43	0	47 46	0.97	0.00	0.00	0.0367852	4.9705300 0.9885630
159 92.1160 94.1		5.26 5.88	0.00	2.63 0.00	35 16	1	0	0		76.04 79.32	13.76 11.52	10.21 0 9.16 0	111.59 28.46	20.25 4.16	14.99 3.29	0	146.820 35.903	92.11 94.12	7.02 5.88	0.88	0	35.00 16.00	2.67 1.00	0.33	0	38 17	1	0.00	0.00	0.0148884	2.3300700 3.1053500
161 66.1	15	9.23	7.69	16.92	43	6	5	11				23.10 0	28.90	17.96	14.09	0	60.948	75.24	14.96	9.80	0	48.90	9.73	6.37	0	65	1	0.00	0.00	0.0108996	2.1603400
162 88.0163 85.4		1.49 8.74	5.83	0.00	59 88	9	6	0		81.64	10.49	7.87 0 8.90 0	77.59 156.89	10.03 20.01	7.51 17.28	0	95.130 194.174	94.10 85.44	4.98 8.74	0.92 5.83	0	63.04 88.00	9.00	6.00	0	67 103	1	0.00	0.00	0.0231712	3.6807700 2.8395200
164 91.0165 90.3		4.00 0.00	3.00	2.00 9.68	91 56	0	3	2 6		84.12 88.27	9.44 6.29	6.44 05.44 0	218.41 27.63	24.51 1.98	16.73 1.74	0	259.647 31.347	92.00 95.54	5.00 3.09	3.00 1.37	0	92.00 59.24	5.00 1.91	3.00 0.85	0	100 62	1	0.00	0.00	0.0234983 0.0164322	3.7436400 3.3521100
166 62.2		3.77	1.89	32.08	33	2	1	17				3.30 0	17.26	3.62	0.72	0	21.597	75.19	14.36	10.45	0	39.85	7.61	5.54	0	53	1	0.00	0.00	0.0066967	2.2806300
167* 17.0 168* 1.85		11.36 12.96	10.23	61.36 74.07	15	10 7	6	54 40		46.84 39.17		24.56 0 10.98 0	18.52 8.87	11.34	9.76 2.52	0	39.617 22.746	39.18	32.43	28.39 33.62	0	34.48 17.15	28.54 18.70	24.98 18.16	0	54 54	0.71	0.18	0.11	0.0012316 0.0003374	0.7277150 0.4317130
169* 8.47 170 36.4		10.17 9.41	8.474.71	72.88 49.41	5 31	8	5	43 42		57.55 83.11	21.52 12.57	20.93 0 4.32 0	60.04 116.84	8.72 12.09	8.44 4.13	0	77.203 133.061	37.59 54.79	34.82 28.29	27.59 16.91	0	22.18 46.57	20.54	16.28 14.38	0	59 85	0.52	0.33	0.15	0.0005247 0.0044188	0.3811660 0.5008010
171 16.1 172 23.4		9.09 10.94	8.08 7.81	66.67 57.81	16 15	9 7	8 5	66 37			16.58 20.19	10.21 0 15.05 0	105.62 27.42	14.78 8.56	9.09 6.37	0	129.494 42.360	42.32 49.85	29.52 25.12	28.15 25.03	0	41.90 31.90	29.23 16.07	27.87 16.02	0	99 64	0.91 0.99	0.05 0.01	0.04 0.01	0.0006267 0.0020582	0.2838620 0.2964830
173 63.1	16 1	10.53	10.53	15.79	12	2	2	3	19	99.51	0.36	0.13 0	8.43	0.03	0.01	0	8.480	70.18	15.13	14.69	0	13.33	2.88	2.79	0	19	1	0.00	0.00	0.0073284	0.4588540
174 54.9175 89.3		7.19 0.00	3.27 0.00	34.64 10.68	92	0	5	53 11				8.71 0 1.00 0	56.01 144.35	14.55 1.66	6.75 1.48	0	77.307 147.486	67.89 96.14	19.29 1.96	12.82	0	103.87 99.03	29.51	19.62 1.95	0	153 103	1	0.00	0.00	0.0059750 0.0233073	1.7555500 4.1719700
176* 24.4 177* 19.7		28.72 19.72	15.96 16.90	30.85 43.66	23 14	27 14	15 12	29 31		21.18 47.10		28.46 0 17.73 0	7.25 10.14	17.20 7.53	9.72 3.81	0	34.162 21.477	35.64 36.42	40.79 32.98	23.57 30.60	0	33.50 25.86	38.34 23.41	22.16 21.73	0	94 71	0.2 0.5	0.76 0.29	0.04	0.0010557 0.0012912	0.8527290 0.1000360
178 25.0	00 1	15.48	4.76	54.76	21	13 7	4	46 46	84	68.12	28.38	3.50 0	28.50	24.88	1.50	0	54.870	44.91	37.79	17.29	0	37.72	31.75	14.53	0	84	0.9	0.09	0.01	0.0017774	0.4917760
179 10.6 180* 31.1			9.09 3.28	69.70 49.18	19	10	2	30				18.21 0 15.88 0	3.84	31.19 6.94	2.04	0	42.968 12.825	47.36 44.35	27.23 37.06	25.41 18.59	0	31.26 27.05	17.97 22.61	16.77	0	66	0.97	0.02	0.01	0.0003695	0.4350090 0.2235650
181 87.9 182* 31.0		1.10 20.69	0.00	10.99 37.93	9	6	3	10 11		93.31 34.96		2.27 0 18.39 0	85.86 4.95	4.08 6.57	2.09	0	92.031 14.154	95.05 45.34	3.27 34.43	1.68 20.22	0	86.49 13.15	2.98 9.99	1.53 5.87	0	91 29	0.75	0.00	0.00	0.0208695 0.0006716	3.3653900 0.9360250
183 27.2 184* 15.9			12.12 6.82	45.45 56.82	9	5 9	4	15 25				26.06 0 19.32 0	3.06 11.35	10.33 11.96	4.76 5.53	0	18.143 28.835	51.13 45.01	27.89 38.21	20.98 16.78	0	16.87 19.81	9.20 16.81	6.92 7.38	0 n	33 44	0.94 0.76	0.03 0.21	0.02	0.0002161 0.0004050	0.8221230 0.4936920
185* 13.8	39 1	13.89	11.11	61.11	5	5	4	22	36	43.83		25.13 0	12.76	9.01	7.33	0	29.102	39.15	33.19	27.66	0	14.09	11.95	9.96	0	36	0.56	0.27	0.17	0.0008118	0.3345820
186* 26.1 187 72.4		14.29 0.79	0.00	45.24 26.77	11 92	6 1	6	19 34		36.25 87.68	50.77 6.96	12.99 0 5.36 0	22.51 74.30	31.54 5.93	8.08 4.57	0	62.126 84.788	38.30 84.83	34.96 7.59	26.74 7.58	0	16.09 107.73	14.68 9.64	9.63	0	42 127	0.52	0.33	0.15	0.0011357 0.0134779	0.1360080 2.4922500
188 45.3 189* 20.0			9.40 14.74	33.33 44.21	53 19	· ·	11	39 42				25.82 0 31.08 0	26.43 6.75	14.68 9.87	14.29 7.49	0	55.406 24.110	61.49 36.97	21.61 32.87	16.89 30.15	0	71.95 35.12	25.28 31.23	19.77 28.65	0	117 95	1 0.57	0.00	0.00 0.18	0.0050502 0.0009996	1.2899600 0.3531520
190 32.7	79 1	11.48	6.56	49.18	20	7	4	30	61	61.08	33.87	5.05 0	20.63	11.49	1.73	0	33.852	51.38	29.13	19.49	0	31.34	17.77	11.89	0	61	0.99	0.00	0.00	0.0032475	0.3560710
191* 31.7 192 68.2		24.39 1.59	14.63 1.59	29.27 28.57	13 43	10	1	12 18		59.39 94.18		16.89 0 2.24 0	30.04 42.17	12.01 1.62	8.56 1.01	0	50.606 44.797	42.47 85.81	37.89 7.57	19.63 6.62	0	17.41 54.06	15.54 4.77	8.05 4.17	0	41 63	0.64	0.30	0.06	0.0039758 0.0091446	0.1589110 1.8486300
193* 31.9 194 59.3		42.55 3.13	12.77 0.00	12.77 37.50	15 19	20	6	6 12				18.47 0 0.00 0	8.75 12.04	11.15 0.69	4.49 0.00	0	24.387 12.726	40.76 74.70	46.13 14.57	13.10 10.73	0	19.16 23.90	21.68 4.66	6.16 3.43	0	47 32	0.23 1	0.76 0.00	0.02	0.0006129 0.0085868	0.4291580 0.9397350
195* 12.0	00 2	20.00	8.00	60.00	3	5	2	15	25	44.43	34.33	21.25 0	3.03	2.39	1.48	0	6.896	38.52	35.69	25.79	0	9.63	8.92	6.45	0	25	0.47	0.36	0.17	0.0026253	0.6993820
196* 11.3 197* 14.4		6.336.58	5.06 2.63	77.22 76.32	9	5	2	61 58				40.28 0 11.44 0	2.13 8.39	5.94 9.10	5.39 2.25	0	13.450 19.742	37.22 39.34	31.60 33.16	31.19 27.50	0	29.40 29.90	24.96 25.20	24.64 20.90	0	79 76	0.57 0.68	0.22	0.21	0.0003875 0.0002561	0.3806530 0.1360370
198* 20.7 199* 13.3			5.66 8.89	62.26 63.33	11 12	6 13	3	33 57				42.01 0 26.53 0		9.96 11.93	9.84 7.23	0	23.395 27.269	38.57 36.25	31.16 34.24	30.27 29.50	0	20.44 32.63	16.51 30.82	16.04 26.55	0	53 90	0.59 0.49	0.21	0.19 0.17	0.0002386 0.0004783	0.1012280 0.1862770
200 22.0	00 4	4.00	4.00	70.00	11	2	2	35	50	40.26	42.28	17.46 0	7.07	7.43	3.11	0	17.602	49.73	26.29	23.98	0	24.86	13.15	11.99	0	50	0.97	0.01	0.01	0.0004714	0.3121250
201* 20.0 202 69.2			5.00	65.00 23.08	18	2	0	26 6				5.17 0 1.08 0	9.54 12.92	3.61 0.50	0.74 0.16	0	13.893 13.578	37.50 84.42	36.91 11.86	25.59 3.72	0	15.00 21.95	14.76 3.08	10.24 0.97	0	40 26	0.45	0.41	0.14	0.0006419 0.0092522	0.1190580 1.0967500
203* 21.4 204* 30.3				42.86 24.24	3 10	4 10	1	6 8	14 33	16.03 8.84	76.68 50.09	7.28 0 41.07 0	1.14 3.62	5.18 20.44	0.51 16.82	0	6.830 40.882	36.18 45.47	42.93 33.09	20.90 21.44	0	5.06 15.00	6.01 10.92	2.93 7.08	0	14 33	0.32 0.79	0.54 0.15	0.14 0.06	0.0001446 0.0001829	0.6534160 0.3045530
205 82.8			3.23	9.68	77	4	3	9	93			0.45 0	120.64	5.49	0.58	0	126.711		8.25	4.56	0	81.08	7.68	4.24	0	93	1	0.00	0.00	0.0001829	2.4178000