

Table 1: Group 1

j	(x,y)	State	v.7	v.8	v.9	v.10	v.11	v.12	v.13
0	(100,100)	singlet	-1.226e-09	5.6305e-09	4.1845e-09	-2.277e-08	-6.494e-11	9.6053e-11	-1.546e-10
	(100,300)	V++	8.3170e-11	-2.259e-26	-1.335e-09	1.6761e-10	4.4851e-11	2.1021e-13	-4.351e-11
	(300,300)	V++	1.7527e-10	2.9595e-26	-2.839e-09	1.5510e-25	8.0234e-11	6.2473e-13	-1.231e-10
1	(100,100)	singlet	-1.391e-10	2.3364e-26	7.8497e-10	-5.816e-26	-4.203e-11	-3.174e-11	3.1741e-11
	(300,100)	triplet	8.3170e-11	-2.259e-26	1.0584e-12	-5.587e-11	-2.427e-11	-3.176e-11	3.5575e-11
	(300,300)	V+-	0.00000000	8.3074e-26	7.5279e-10	-4.447e-10	7.0722e-11	-5.953e-14	-3.436e-11
2	(100,300)	triplet	-9.191e-12	-1.480e-26	4.3533e-11	-1.495e-11	9.0387e-12	9.8507e-15	5.2564e-12
	(300,100)	V-	8.3170e-11	-2.259e-26	-5.332e-10	3.3523e-11	3.3759e-12	-9.476e-11	3.9823e-12
	(300,300)	V-+	0.00000000	0.00000000	6.2405e-11	1.8095e-25	-7.707e-12	-7.768e-27	5.2668e-25
3	(100,300)	singlet	-7.267e-13	-4.673e-27	4.9183e-12	-4.279e-12	-5.581e-13	2.8198e-15	1.5047e-12
	(100,300)	V-	-9.191e-12	-2.882e-26	2.5595e-11	1.0678e-11	-1.552e-12	-7.036e-15	-3.755e-12
	(100,300)	V+-	0.00000000	0.00000000	2.5182e-13	-8.719e-13	1.3744e-13	5.7453e-16	3.0657e-13

Table 2: Group 2

j	(x,y)	State	v.14	v.15	v.16	v.17	v.18	v.19	v.20
0	(100,100)	singlet	1.1499e-11	-2.588e-11	-2.436e-11	-6.187e-11	-1.868e-11	5.1440e-12	3.3384e-11
	(100,300)	V++	-1.325e-11	1.6904e-11	3.2472e-11	4.2840e-11	-6.328e-12	1.9650e-12	6.3823e-13
	(300,300)	V++	-2.331e-11	3.3042e-11	6.8068e-11	7.7420e-11	-8.447e-12	1.0010e-11	3.8034e-12
1	(100,100)	singlet	1.1584e-11	8.1134e-12	-4.519e-11	-4.004e-11	-2.385e-12	3.3291e-12	-3.795e-12
	(300,100)	triplet	7.6204e-12	1.6066e-11	-3.332e-11	-2.319e-11	6.1598e-13	-1.063e-12	-2.970e-13
	(300,300)	V+-	-2.319e-11	-1.522e-12	2.4771e-10	6.8242e-11	-2.684e-11	8.8232e-12	-9.735e-29
2	(100,300)	triplet	-2.557e-12	-6.899e-14	-3.361e-13	8.6333e-12	-1.535e-12	3.9600e-13	8.2898e-14
	(300,100)	V-	-7.265e-13	1.6401e-11	-7.001e-12	3.2245e-12	-1.009e-11	1.4790e-13	-2.168e-12
	(300,300)	V-+	2.2423e-12	-7.629e-14	3.0055e-11	-7.437e-12	4.5981e-13	-9.616e-13	0.00000000
3	(100,300)	singlet	2.3176e-13	-1.975e-14	-9.620e-14	-5.330e-13	1.6434e-14	-2.445e-14	9.4798e-15
	(100,300)	V-	2.3883e-13	4.9281e-14	2.4005e-13	-1.482e-12	4.9397e-12	-6.799e-14	2.8137e-13
	(100,300)	V+-	-4.979e-14	-4.024e-15	-1.960e-14	1.3127e-13	-7.359e-15	6.0213e-15	0.00000000

Table 3: Group 3

j	(x,y)	State	v.21	v.22	v.23	v.24	v.25	
0	(100,100)	singlet	5.6892e-11	6.5895e-11	1.7956e-10	-1.069e-11	5.1515e-12	
	(100,300)	V++	-6.554e-11	-1.360e-11	1.1928e-11	1.9275e-11	-9.621e-11	
	(300,300)	V++	-1.153e-10	1.5217e-11	1.5899e-11	3.4040e-11	-2.207e-10	
1	(100,100)	singlet	5.7317e-11	4.4340e-11	-1.070e-11	-1.338e-11	1.9230e-11	
	(300,100)	triplet	3.7704e-11	8.5236e-12	2.2736e-11	-1.164e-11	6.1639e-11	
	(300,300)	V+-	-1.148e-10	-1.395e-11	2.0583e-11	3.6842e-11	-2.703e-10	
2	(100,300)	triplet	-1.265e-11	-7.259e-13	1.7465e-12	3.3880e-12	-1.072e-11	
	(300,100)	V-	-3.595e-12	-3.255e-13	4.4964e-11	7.2634e-13	-1.503e-12	
	(300,300)	V-+	1.1094e-11	-4.432e-12	1.1330e-12	-3.108e-12	1.3577e-11	
3	(100,300)	singlet	1.1467e-12	-2.814e-14	-5.981e-14	-3.391e-13	-1.345e-13	
	(100,300)	V-	1.1817e-12	2.5937e-13	-7.450e-12	-1.068e-13	-4.380e-13	
	(100,300)	V+-	-2.463e-13	-1.495e-14	7.1505e-15	7.9480e-14	3.4277e-14	

Table 4: Group 4

j	(x,y)	State	v.26	v.27	v.28	v.29	v.30	
0	(100,100)	singlet	-2.691e-11	6.6247e-11	7.5577e-12	3.0290e-11	6.3321e-15	
	(100,300)	V++	-3.967e-11	-4.469e-11	-4.766e-12	4.3838e-13	1.9939e-15	
	(300,300)	V++	-2.554e-11	-1.108e-11	-7.099e-12	2.3105e-13	8.6657e-15	
1	(100,100)	singlet	4.5285e-12	9.5081e-12	4.8912e-12	-5.886e-12	-3.468e-15	
	(300,100)	triplet	1.2639e-11	-4.371e-12	2.5796e-12	1.3834e-12	-1.777e-16	
	(300,300)	V+-	1.0247e-10	-9.747e-11	-6.257e-12	-7.301e-29	4.0899e-15	
2	(100,300)	triplet	3.0607e-11	-2.501e-11	-9.605e-13	-3.956e-13	2.3445e-17	
	(300,100)	V-	-6.679e-12	-2.436e-11	-3.588e-13	3.2733e-12	-2.423e-15	
	(300,300)	V-+	3.8099e-11	6.7721e-11	6.8189e-13	7.7882e-29	-1.822e-29	
3	(100,300)	singlet	-1.657e-11	6.9307e-12	5.9304e-14	-4.796e-14	6.7113e-18	
	(100,300)	V-	-3.391e-11	3.2783e-11	1.6491e-13	-6.636e-13	-1.675e-17	
	(100,300)	V+-	-4.084e-13	-1.771e-13	-1.461e-14	0.00000000	1.3674e-18	