Table 1: Group 1

j	(x,y)	State	Eq.4	Eq.5	Eq.10	Eq.17	Eq.18	Eq.19	Eq.24
0	(100,100)	singlet	1.1199e-07	3.1835e-08	3.2739e-07	-1.215e-07	5.1693e-08	-2.425e-07	6.9865e-08
	(100,300)	V++	-8.231e-08	4.5017e-08	-1.341e-08	8.3902e-08	4.5938e-09	1.8107e-07	-9.092e-08
	(300,300)	V++	-1.469e-07	1.1074e-07	1.0182e-09	1.5009e-07	1.5977e-09	3.3984e-07	-4.767e-07
1	(100,100)	singlet	7.6349e-08	4.4789e-09	9.1651e-09	-7.862e-08	-2.346e-08	-1.586e-07	2.7231e-08
	(300,100)	triplet	4.4969e-08	-3.815e-08	5.2306e-09	-4.541e-08	-8.254e-08	-9.931e-08	1.0689e-07
	(300,300)	V+-	-1.319e-07	2.2456e-07	8.5409e-08	1.3230e-07	-9.802e-08	3.1194e-07	-3.188e-07
2	(100,300)	triplet	-1.648e-08	-1.449e-08	-4.125e-09	1.6908e-08	1.0212e-08	3.4383e-08	-1.192e-08
	(300,100)	V−	-5.942e-09	-4.885e-09	1.1173e-07	6.3153e-09	-1.859e-07	1.2842e-08	4.5236e-08
	(300,300)	V-+	1.4112e-08	1.3697e-08	6.6366e-10	-1.442e-08	-2.210e-08	-3.041e-08	1.8871e-09
3	(100,300)	singlet	1.0867e-09	7.4278e-10	-1.624e-10	-1.044e-09	2.0233e-10	-2.123e-09	-2.821e-09
	(100,300)	V−	2.6426e-09	2.0076e-09	-2.602e-08	-2.903e-09	6.9286e-09	-5.903e-09	3.1393e-09
	(100,300)	V+-	-2.608e-10	-1.859e-10	-7.374e-12	2.5710e-10	-2.888e-11	5.2281e-10	-5.506e-10

Table 2: Group 2

j	(x,y)	State	Eq.39	Eq.40	Eq.41	Eq.44	Eq.45	Eq.47	Eq.48
0	(100,100)	singlet	-7.141e-07	1.5682e-06	9.8383e-07	4.3027e-08	-2.123e-06	0.00000000	-3.783e-06
	(100,300)	V++	3.6287e-08	1.7395e-07	-1.728e-08	5.1046e-08	1.7269e-08	-1.738e-09	4.1118e-08
	(300,300)	V++	7.8251e-08	3.8090e-07	-3.351e-08	1.0022e-07	4.2340e-08	-2.695e-09	3.7325e-08
1	(100,100)	singlet	-5.448e-08	4.6644e-08	-9.832e-09	-7.445e-24	7.3066e-10	0.00000000	1.4501e-07
	(300,100)	triplet	3.6287e-08	-1.303e-07	-1.728e-08	-1.380e-08	1.7269e-08	-8.689e-10	4.1118e-08
	(300,300)	V+-	-5.104e-23	-1.763e-07	0.00000000	6.6174e-24	-3.403e-23	-2.492e-26	-6.805e-23
2	(100,300)	triplet	-3.059e-09	5.5312e-09	-2.111e-10	-4.136e-25	-4.470e-09	1.0531e-10	-5.178e-09
	(300,100)	V−	3.6287e-08	-8.603e-09	-1.728e-08	1.2141e-08	1.7269e-08	8.6890e-10	4.1118e-08
	(300,300)	V-+	5.1041e-24	-1.275e-08	0.00000000	-2.302e-09	0.00000000	1.5950e-25	1.2760e-24
3	(100,300)	singlet	-1.652e-10	2.2851e-10	-1.391e-11	-1.367e-24	-8.336e-11	0.00000000	-1.218e-10
	(100,300)	V−	-3.059e-09	8.8889e-09	-2.111e-10	1.5396e-24	-4.470e-09	-2.106e-10	-5.178e-09
	(100,300)	V+-	0.00000000	-4.273e-11	0.00000000	1.3401e-24	0.00000000	-5.340e-27	0.00000000

Table 3: Group 3

j	(x,y)	State	Eq.49	Eq.50	Eq.51	Eq.52	
0	(100,100)	singlet	0.00000000	0.00000000	-7.549e-09	3.7301e-09	
	(100,300)	V++	-2.479e-09	4.3816e-09	-1.747e-08	-5.584e-11	
	(300,300)	V++	-5.782e-09	1.0451e-08	-4.037e-08	-3.363e-10	
1	(100,100)	singlet	0.00000000	0.00000000	-7.950e-09	-6.038e-11	
	(300,100)	triplet	-1.240e-09	2.1908e-09	4.2614e-09	0.00000000	
	(300,300)	V+-	-1.329e-25	-3.988e-25	-4.304e-08	3.8124e-08	
2	(100,300)	triplet	2.2683e-10	6.3063e-10	8.0815e-11	9.1145e-09	
	(300,100)	V−	1.2396e-09	-2.191e-09	-4.433e-09	-2.233e-11	
	(300,300)	V-+	0.00000000	0.00000000	-1.228e-10	-1.647e-10	
3	(100,300)	singlet	0.00000000	0.00000000	1.9339e-11	7.1590e-11	
	(100,300)	V−	-4.537e-10	-1.261e-09	-1.130e-10	-4.556e-09	
	(100,300)	V+-	-1.424e-26	0.00000000	2.9590e-12	1.9820e-12	

Table 4: Group 4

j	(x,y)	State	Eq.53	Eq.54	Eq.55	Eq.56	
0	(100,100)	singlet	-1.519e-07	-8.905e-10	-1.092e-06	0.00000000	
	(100,300)	V++	-1.615e-07	2.4442e-10	3.1134e-08	-5.847e-10	
	(300,300)	V++	-3.003e-07	2.9496e-09	5.6178e-08	-2.399e-09	
1	(100,100)	singlet	4.8473e-08	-3.268e-11	-6.756e-08	0.00000000	
	(300,100)	triplet	4.4477e-08	0.00000000	3.1134e-08	-2.924e-10	
	(300,300)	V+-	1.0182e-07	7.9730e-09	0.00000000	0.00000000	
2	(100,300)	triplet	1.0254e-09	1.3477e-09	-6.370e-09	5.4504e-11	
	(300,100)	V−	-3.792e-08	9.7769e-11	3.1134e-08	2.9237e-10	
	(300,300)	V-+	7.3921e-09	1.4450e-09	2.5520e-24	0.00000000	
3	(100,300)	singlet	2.2210e-10	1.0186e-10	-6.266e-10	0.00000000	
	(100,300)	V−	-1.488e-09	-6.650e-10	-6.370e-09	-1.090e-10	
	(100,300)	V+-	3.4129e-11	1.0248e-11	0.00000000	0.00000000	