

SEC 0,0

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBBF	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0		-4,153042792	-4,153042792	0	0	0	0	0	0				
# 1	f: [1_1^+] + [1_1, 2_2]_{-\infty}	-3,913521739	-4,022321878	0	0	0	0,5	0	-1/4	6	2048		
# 2	b: [1_1^+] + [1_1, 2_2]_{-\infty}	-3,474989513	-3,749971242	0	0	0	0	1	-1/8			6	2048
# 3	f: [(1_1^+)^3, (1_2^-)^2] + [1_1, 2_2]_{-\infty}	-3,153302712	-3,596648323	0	0	0	0,5	0	-1/4	6	1024		
# 4	f: [1_1]_{+\infty} + [1_1, 2_2]_{-\infty}	-3,10008636	-3,531627995	1	0	0	0	0	1	6	2048		
# 5	f: [(1_1^+)^3, z_2] + [1_1, 2_2]_{-\infty}	-2,860250848	-3,368437836	1	0	0	0,5	0	-1/4+1	6	2048		
# 6	f: [(1_1^+)^3, z_2] + [1_1, 2_2]_{-\infty} or b: [1_1^+, 1_1^-, z_2] + [1_1, 2_2]_{-\infty} + [1_1]_{+\infty}	-2,842364296	-3,333216646	1								6	26
# 7	b: [1_1^+] + [1_1, 2_2]_{-\infty}	-2,788798834	-3,264315659	1	0	0	0	1	-1/8+1			6	2048
# 8	f: [(1_1^+)^2] + [1_1, 2_2]_{+\infty} + [1_1, 2_2]_{-\infty}	-2,714701622	-3,29552387	1	0	0	0,5	0	-1/4+1	6	2048		
# X1	f: [(1_1^+)^5, (1_2^-)^4] + [1_1, 2_2]_{-\infty}	-2,025782291	-2,891419589	0	0	0	0,5	0	-1/4	6	2048		

SEC 0,1

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: [3_{12}^{+}]	-3,977766	-4,059329735	0	0	1	0	0	0	6	8192		
# 1	b: [1_1^{+}, 1_2^{-}]	-3,23985	-3,58733072	0	0	1	0	1	-1/8+1/2	6	512	6	512
# 2	f: [(1_1^{+})^2, (1_2^{-})^2, 3_{12}^{+}]	-3,1433226	-3,589637473	0	0	1	0,5	0	-1/4	6	8192		
# 3	f: [(1_1^{+})^3, 1_2^{-}, 3_{21}^{-}]	-3,141283	-3,588308937	0	0	1	0,5	0	-1/4	6	2048		
# 4	f: [(1_1^{-})^2, 1_2^{-}]	-3,087052	-3,525003914	1	0	1	0	0	1	6	2048		
# 5	f: [(1_1^{+})^2, 1_2^{+}, 2_1^{+}, 2_2^{-}]	-2,96061256	-3,425725975	1	0	1	0	1	-1/8+1/2	6	2048		
# 6	b: [1_1^{-}, 1_2^{+}, \bar{2}_1^{+}, 2_2^{+}]	-2,9318589	-3,411236152	1	0	1	0	0	1	6	62	6	2048
# 7	f: [(1_1^{+})^2, (1_1^{-})^2, 1_2^{+}, \bar{2}_2^{-}]	-2,795628103	-3,352157791	0	0	1	0	1	-1/8+1/2	6	1000	6	2048
# X1	f: [(1_1^{+})^4, (1_2^{-})^4, 3_{12}^{+}]	-2,01651552	-2,884455861	0	0	1	0,5	0	-1/4	6	8192		
# X2	f: [(1_1^{+})^5, (1_2^{-})^3, 3_{21}^{-}]	-2,016174587	-2,884208371	0	0	1	0,5	0	-1/4	6	2048		

SEC 0,2

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	b: []	-3,865183592	-3,989896802	0	0	2	0	0	0			6	2048
# 1	b: [(1_1^-)^2, 1_2^+, 1_2^-]	-3,110493626	-3,566660126	0	0	2	0,5	0	-1/4			6	2048
# 2	b: [(1_1^-)^2, \bar{2}_2^-]	-3,101005383	-3,560381373	0	0	2	0,5	0	-1/4			6	2048
# 3	b: []	-3,099230434	-3,523455919	1	0	2	0	1	-1/8			6	2048
# 4	b: []	-2,957695579	-3,408848365	1	0	2	0	0	1			6	2048
# 5	b: [3_{12}^+, 1_2^-]	-2,614981589	-3,217657344	0	0	2	0	1	-1/8+1			6	2048
# 6	b: [1_1^+, 1_1^-, 1_2^+, 1_2^-]	-2,588577101		1	0	2	0	0	1			6	1024
# 7	b: [(1_1^-)^2, 1_2^+, 1_2^-]	-2,526544501	-3,076383866	1	0	2	0,5	0	-1/4+1	6	10	6	2048
# 8	b: [1_1^+, 1_1^-, 1_2^+, 1_2^-]	-2,521806280		1	0	2	0	1	-1/8+1			6	1024
# X1	b: [(1_1^-)^4, 1_2^+, (1_2^-)^3]	-1,987817629	-2,862921794	0	0	2	0,5	0	-1/4			6	2048
# X2	b: [(1_1^-)^4, (1_2^-)^2, \bar{2}_2^-]	-1,98640204	-2,861886842	0	0	2	0,5	0	-1/4			6	2048

SEC 1,0

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: [1_1^+, 1_2^-]	-4,003213924	-4,076249738	0	1	0	0	0	-1/4	6	8192		
# 1	f: [(1_1^+)^3, (1_2^-)^3]	-3,199795558	-3,628099742	0	1	0	0	0	-1/4	6	8192		
# 2	f: [1_1^-, 1_2^+]	-3,138978804	-3,561232853	1	1	0	0	0	-1/4+1	6	2048		
# 3	f: [3_{12}^+, 3_{21}^+] or b: [1_1^-, 1_2^+, 3_{21}^+, z_1]	-2,768478694	3,322814083	0						6	14	6	38
# 4	f: [(1_1^+)^2, 1_1^-, 1_2^-, \bar{2}_2^+]	-2,743607816	-3,317120947	1	1	0	0	0	-1/4+1	6	1024		
# 5	f: [1_1^-, 1_2^+]	-2,668016798	-3,131998300	2	1	0	0	0	-1/4+2	6	2048		
# 6	f: [(1_1^+)^2, 1_1^-, 1_2^-, z_2]	-2,649769167	-3,227307044	1	1	0	0,5	1	-1/8+1/2	6	1024		
# 7	f: [1_1^-, 1_2^+, z_1, z_2] or b: [3_{12}^+, z_1, z_2]		-3,114277307	1						8	8	8	8
# 8	f: [(1_1^+)^3, 1_2^-, 2_2^+]	-2,528029033	-3,176106831	1	1	0	1	0	-1/4	6	2048		
# 9	f: [(1_1^+)^2, 1_2^-, 3_{21}^-]	-2,448427361	-3,1114608	0	1	0	0,5	1	-1/8+1/2	6	800		
# X1	f: [(1_1^+)^5, (1_2^-)^5]	-2,054357049	-2,912675388	0	1	0	0	0	-1/4	6	8192		

SEC 1,1

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: [1_1^+]	-3,990727504	-4,067970104	0	1	1	0	0	-1/4	6	2048		
# 1	f: [(1_1^+)^3, (1_2^-)^2]	-3,185920066	-3,618576113	0	1	1	0	0	-1/4	6	1024		
# 2	f: [1_1^-] or b: [1_1^+]	-3,167412091	-3,527388452	0						4	36	4	36
# 3	f: [1_1^-]	-3,114568257	-3,544322039	1	1	1	0	0	-1/4+1	6	2048		
# 4	f: [(1_1^+)^2] + [1_1, 2_2^+]_{-\infty}	-2,817287703	-3,356989888	1	1	1	0	0	-1/4+1	6	2048		
# 5	b: [1_1^-, z_1, z_2] for g < pi/4 and b: [(1_1^+)^2, 1_1^-, z_2] for g = pi/4	-2,787276149		1								6	6
# 6	f: [(1_1^+)^2] + [1_1, 2_2^+]_{-\infty}	-2,781683638	-3,323022232	1	1	1	0,5	1	-1/8	6	2048		
# 7	b: [1_1^+]	-2,684538177	-3,131684585	2	1	1	0	0	-1/4+2			6	2048
# 8		-2,55373908											
# 9	f: [(1_1^+)^2] + [1_1, 2_2^+]_{-\infty}	-2,527136392	-3,174858815	1	1	1	1	0	-1/4	6	2048		
# X1	f: [(1_1^+)^5, (1_2^-)^4]	-2,044105874	-2,905017045	0	1	1	0	0	-1/4	6	1024		

SEC 1,2

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBBF	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	b: [(1_1^-)^2, 1_2^-]	-3,140431744	-3,587367543	0	1	2	0	0	-1/4			6	2048
# 1	f: [(1_1^+)^2, 1_1^-, 1_2^+] of b: [3_{12}^+]	-2,603367792	-3,203953554	0						6	42	6	22
# 2	b: [(1_1^-)^2, 1_2^-]	-2,538060870	-3,090175536	2	1	2	0,5	1	-1/8+1/2			6	2048
# 3	b: [(1_1^-)^2, 1_2^-]		-3,086444969	1	1	2	0	0	-1/4+1			6	2048
# 4	b: [(1_1^+)^2, 1_2^-]	-2,318200690	-3,032378650	0	1	2	0	0	-1/4+2			6	2048
# 5	f: [(1_1^+)^2, 1_1^-, 1_2^+]	-2,256002415	-2,938581897	2						6	1024		
# 6	b: [(1_1^+)^2, 1_2^+]	-2,035445450	-2,860181342	0	1	2	0	0	-1/4+2			6	2048
# 7	b: [(1_1^-)^4, (1_2^-)^3]	-2,012410690	-2,881359937	0	1	2	0	0	-1/4			6	2050
# X1	b: [(1_1^-)^6, (1_2^-)^5]		-2,030266408	0	1	2	0	0	-1/4			8	2048

SEC 2,0

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: [(1_1^+)^2, z_2]	-3,337503995	-3,64812603	0	2	0	0	1	-1/8	4	2048	6	16
# 1	f: []	-3,180091739	-3,58645208	1	2	0	0,5	0	-1/4	6	1504		
# 2	f: [(1_1^+)^2, 1_2^+, 1_2^-]	-2,832765978	-3,37035889	0	2	0	0	1	-1/8	6	2048		
# 3	f: []	-2,776518909	-3,17986127	2	2	0	0,5	0	-1/4+1	6	1504		
# 4	f: [(1_1^+)^2, (1_2^-)^2]	-2,75284099	-3,32467126	1	2	0	0,5	0	-1/4	6	1504		
# 5	f: [(1_1^+)^2, (1_2^-)^2] or b: [1_1^+, (1_1^-)^3, (1_2^-)^2]	-2,64926281	-3,22439356	1						6	96	6	208
# 6	f: [(1_1^+)^2, (1_2^-)^2] or b: [1_1^+, (1_1^-)^3, (1_2^-)^2]	-2,466818873	-3,12285941	0						6	72	6	172
# 7		-2,422713652											
# 8	f: [1_1^+, 1_1^-, \lambda^{\{2\}} = \pm i \pi/4]	-2,407831816	-3,09668902	0	2	0	0,5	0	-1/4+1	6	1504		
# 10	f: [1_2^+, 3_{12}^+]	-2,241825553	-3,01563271	0	2	0	0	0	1	6	1504		

SEC 2,1

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBBF		BFBBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: [(1_1^+)^2, 1_2^+] or b: [1_1^-, 3_{12}^+]	-2,766992665	-3,320979493	0	2	1	0	1	3/8	6	80	6	22
# 1	f: [(1_1^+)^2, 1_2^-]	-2,744886187	-3,318547188	1	2	1	0,5	0	-1/4	6	2048		
# 2	b: [1_1^+, (1_1^-)^2, 1_2^-]	-2,64788558	-3,224975306	1	2	1	0	1	3/8	6	220	6	2048
# 3	b: [1_1^+, (1_1^-)^2, 1_2^-]	-2,446026976	-3,108337081	0	2	1	0	1	3/8	6	88	6	2048
# 4	f: [???	-2,410992032	-3,099277708	0						6	16		
# 5	b: [1_1^-, 3_{12}^+]	-2,364849886	-3,006324988	2	2	1	0,5	0	-1/4+1			6	2048
# 6	b: [(1_1^+)^2, 1_1^-, 1_2^-]	-2,190917481	-2,967934268	0	2	1	0	0	1			6	2048
# 7	b: [1_1^+, (1_1^-)^2, 1_2^-]	-2,159805977	-2,893311021	2	2	1	0,5	0	-1/4+1			6	2048

SEC 2,2

state no.	root configuration	E/L (g=2Pi/7)		s	Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBFB	
		L=6	L=8		n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: [(1_1^+)^2]	-2,714701622	-3,29552387	1	2	2	0,5	0	-1/4	6	2048		
# 1	f: [(1_1^+)^2]	-2,639482344	-3,223597241	1	2	2	0	1	-1/8	6	2048		
# 2	f: [1_1^+, 1_1^-]	-2,402441486	-3,090277709	0	2	2	0	0	1	6	2048		
# 3	f: [(1_1^+)^2] or b: [1_1^+, 1_1^-]	-2,357779798	-3,044663114	0						6	42	6	80
# 4	b: [1_1^+, 1_1^-]		-3,011963602	2	2	2	0	1	-1/8+1			6	2048
# 5	b: [1_1^+, 1_1^-]	-2,091101201	-2,848027394	2	2	2	0,5	0	-1/4+1			6	2048
# 6	b: [(1_1^+)^2]	-2,024670026	-2,77561671	2	2	2	0	1	-1/8+1			6	2048
# 7	f: [1_1^+, 1_1^-] or b: [(1_1^+)^2]	-1,914407456	-2,740545152	1						6	50	6	36
# X1	f: [(1_1^+)^3, 1_1^-, z_2]	-1,568937996	-2,557939516	0	2	2	0,5	0	-1/4+1	6	2048		
# X2	f: [(1_1^+)^4, 1_2^+, 1_2^-]	-1,595085137	-2,568364432	0	2	2	0	1	-1/8+1	6	2048		
# X3	f: [(1_1^+)^5, (1_1^-)^2, 3_{21}^-]		-1,809048933	0	2	2	0,5	0	-1/4+1	6	2048		

SEC 0,0 state 0 with twisted boundary conditions

state no.	root configuration	boundary conditions	E/L ($g=2\pi/7$)		Xconj = X(n1,n2,m1,m2)+x0					FBBBF		BFBBF	
			L=6	L=8	n1	n2	m1	m2	x0	Lmin	Lmax	Lmin	Lmax
# 0	f: []	phi1 = pi, phi2 = 0 (NS sector) ... twists phi1 in [0.14, 3.14] ...	-4,449290031	-4,315342647	0	0	0	0	-1/4	4	2048		
# 0	f: []	phi1 = 0, phi2 = 0 (R sector)	-4,153042792	-4,153042792	0	0	0	0	0				