## No. 22 $C_{3h}$ -6 [hexagonal] (axial)

表 1 rank 0

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
1	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	_	_	$\mathbb{G}_0^{(h,A^{\prime\prime})}$	${\tt Gh}({\tt O},{\tt A}^{\prime\prime},,)$	$C_0$

表 2 rank 1

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
2	A'	$\mathtt{A}'$	_	-	$\mathbb{G}_1^{(h,A')}$	${\tt Gh}({\tt 1},{\tt A}',,)$	$C_0$
3	$E^{\prime\prime}$	$\mathtt{E}''$	_	0	$\mathbb{G}_{1,0}^{(h,E^{\prime\prime})}$	${\tt Gh}(1,E^{\prime\prime},,0)$	$C_1$
4	$E^{\prime\prime}$	$E^{\prime\prime}$	_	1	$\mathbb{G}_{1,1}^{(h,E^{\prime\prime})}$	${\tt Gh}(1,E'',,1)$	$S_1$

表 3 rank 2

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
5	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	-	-	$\mathbb{G}_2^{(h,A^{\prime\prime})}$	${\tt Gh}(2,A'',,)$	$C_0$
6	E'	E'	_	0	$\mathbb{G}_{2,0}^{(h,E')}$	${\tt Gh}(2,E',,0)$	$C_1$
7	E'	E'	_	1	$\mathbb{G}_{2,1}^{(h,E')}$	${\tt Gh}(2,E',,1)$	$S_1$
8	$E^{\prime\prime}$	Ε"	_	0	$\mathbb{G}_{2,0}^{(h,E^{\prime\prime})}$	${\tt Gh}(2,E'',,0)$	$C_2$
9	$E^{\prime\prime}$	Ε"	_	1	$\mathbb{G}_{2,1}^{(h,E^{\prime\prime})}$	${\tt Gh}(2,E'',,1)$	$-S_2$

表 4 rank 3

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
10	A'	$\mathtt{A}'$	_	_	$\mathbb{G}_3^{(h,A')}$	${\tt Gh}({\tt 3},{\tt A}',,)$	$C_0$
11	A''	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_3^{(h,A^{\prime\prime},1)}$	${\tt Gh}({\tt 3},{\tt A}^{\prime\prime},{\tt 1},)$	$S_3$
12	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_3^{(h,A^{\prime\prime},2)}$	${\tt Gh}({\tt 3},{\tt A}^{\prime\prime},{\tt 2},)$	$C_3$
13	E'	E'	_	0	$\mathbb{G}_{3,0}^{(h,E')}$	${\tt Gh}({\tt 3},{\tt E}',,0)$	$C_2$
14	E'	E'	_	1	$\mathbb{G}_{3,1}^{(h,E')}$	${\tt Gh}({\tt 3},{\tt E}',,{\tt 1})$	$-S_2$
15	$E^{\prime\prime}$	$E^{\prime\prime}$	_	0	$\mathbb{G}_{3,0}^{(h,E^{\prime\prime})}$	${\tt Gh}({\tt 3},{\tt E}^{\prime\prime},,{\tt 0})$	$C_1$
16	$E^{\prime\prime}$	Ε"	_	1	$\mathbb{G}_{3,1}^{(h,E^{\prime\prime})}$	${\tt Gh}({\tt 3},{\tt E}^{\prime\prime},,{\tt 1})$	$S_1$

表 5 rank 4

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
17	A'	$\mathtt{A}'$	1	_	$\mathbb{G}_4^{(h,A',1)}$	${\tt Gh(4,A',1,)}$	$C_3$
18	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_4^{(h,A',2)}$	${\tt Gh(4,A',2,)}$	$S_3$
19	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	_	_	$\mathbb{G}_4^{(h,A^{\prime\prime})}$	${\tt Gh}(4,{\tt A}^{\prime\prime},,)$	$C_0$
20	E'	E'	_	0	$\mathbb{G}_{4,0}^{(h,E')}$	${\tt Gh}(4,E',,0)$	$C_1$
21	E'	E'	_	1	$\mathbb{G}_{4,1}^{(h,E')}$	${\tt Gh}(4,E',,1)$	$S_1$
22	$E^{\prime\prime}$	Ε''	1	0	$\mathbb{G}_{4,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(4,{\tt E}'',1,0)$	$C_4$
23	$E^{\prime\prime}$	Ε''	1	1	$\mathbb{G}_{4,1}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(4,{\tt E}'',1,1)$	$S_4$
24	$E^{\prime\prime}$	E''	2	0	$\mathbb{G}_{4,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(4,{\tt E}^{\prime\prime},2,0)$	$C_2$
25	E''	Ε"	2	1	$\mathbb{G}_{4,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(4,E'',2,1)$	$-S_2$

表 6 rank 5

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
26	A'	A'	_	_	$\mathbb{G}_{5}^{(h,A')}$	${\tt Gh}({\tt 5},{\tt A}',,)$	$C_0$
27	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_{5}^{(h,A^{\prime\prime},1)}$	${\tt Gh}({\tt 5},{\tt A}^{\prime\prime},{\tt 1},)$	$S_3$
28	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_{5}^{(h,A^{\prime\prime},2)}$	${\tt Gh}({\tt 5},{\tt A}^{\prime\prime},{\tt 2},)$	$C_3$
29	E'	E'	1	0	$\mathbb{G}_{5,0}^{(h,E',1)}$	${\tt Gh}({\tt 5},{\tt E}',{\tt 1},{\tt 0})$	$C_4$
30	E'	E'	1	1	$\mathbb{G}_{5,1}^{(h,E',1)}$	${\tt Gh}({\tt 5},{\tt E}',{\tt 1},{\tt 1})$	$S_4$
31	E'	E'	2	0	$\mathbb{G}_{5,0}^{(h,E',2)}$	${\tt Gh}({\tt 5},{\tt E}',{\tt 2},{\tt 0})$	$C_2$
32	E'	E'	2	1	$\mathbb{G}_{5,1}^{(h,E',2)}$	${\tt Gh}({\tt 5},{\tt E}',{\tt 2},{\tt 1})$	$-S_2$
33	E''	$E^{\prime\prime}$	1	0	$\mathbb{G}_{5,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}({\tt 5},{\tt E}^{\prime\prime},{\tt 1},{\tt 0})$	$C_5$
34	E''	$E^{\prime\prime}$	1	1	$\mathbb{G}_{5,1}^{(h,E^{\prime\prime},1)}$	${\tt Gh}({\tt 5},{\tt E}^{\prime\prime},{\tt 1},{\tt 1})$	$-S_5$
35	E''	E''	2	0	$\mathbb{G}_{5,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}({\tt 5},{\tt E}^{\prime\prime},{\tt 2},{\tt 0})$	$C_1$
36	E''	Ε"	2	1	$\mathbb{G}_{5,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}({\tt 5},{\tt E}^{\prime\prime},{\tt 2},{\tt 1})$	$S_1$

表 7 rank 6

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
37	A'	$\mathtt{A}'$	1	_	$\mathbb{G}_6^{(h,A',1)}$	${\tt Gh}({\tt 6},{\tt A}',{\tt 1},)$	$C_3$
38	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_6^{(h,A',2)}$	${\tt Gh}(6,{\tt A}',2,)$	$S_3$
39	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_6^{(h,A^{\prime\prime},1)}$	${\tt Gh}({\tt 6},{\tt A}^{\prime\prime},{\tt 1},)$	$C_0$
40	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_6^{(h,A^{\prime\prime},2)}$	${\tt Gh}(6,{\tt A}^{\prime\prime},2,)$	$C_6$
41	A''	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{G}_6^{(h,A^{\prime\prime},3)}$	${\tt Gh}(6,{\tt A}^{\prime\prime},3,)$	$S_6$
42	E'	E'	1	0	$\mathbb{G}_{6,0}^{(h,E',1)}$	${\tt Gh}(6,E',1,0)$	$C_5$
43	E'	E'	1	1	$\mathbb{G}_{6,1}^{(h,E',1)}$	${\tt Gh}(6,E',1,1)$	$-S_5$
44	E'	E'	2	0	$\mathbb{G}_{6,0}^{(h,E',2)}$	${\tt Gh}(6,E',2,0)$	$C_1$
45	E'	E'	2	1	$\mathbb{G}_{6,1}^{(h,E',2)}$	${\tt Gh}(6,E',2,1)$	$S_1$
46	$E^{\prime\prime}$	$E^{\prime\prime}$	1	0	$\mathbb{G}_{6,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(6,E'',1,0)$	$C_4$
47	$E^{\prime\prime}$	$E^{\prime\prime}$	1	1	$\mathbb{G}_{6,1}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(6,E'',1,1)$	$S_4$
48	$E^{\prime\prime}$	E''	2	0	$\mathbb{G}_{6,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(6,E'',2,0)$	$C_2$
49	E''	Ε''	2	1	$\mathbb{G}_{6,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(6,E'',2,1)$	$-S_2$

表 8 rank 7

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
50	A'	$\mathtt{A}'$	1	_	$\mathbb{G}_7^{(h,A',1)}$	${\tt Gh(7,A',1,)}$	$S_6$
51	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_7^{(h,A',2)}$	${\tt Gh}(7,{\tt A}',2,)$	$C_0$
52	A'	$\mathtt{A}'$	3	_	$\mathbb{G}_7^{(h,A',3)}$	${\tt Gh}(7,{\tt A}',3,)$	$C_6$
53	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_7^{(h,A^{\prime\prime},1)}$	${\tt Gh}(7,{\tt A}^{\prime\prime},1,)$	$S_3$
54	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_7^{(h,A^{\prime\prime},2)}$	${\tt Gh}(7,{\tt A}^{\prime\prime},2,)$	$C_3$
55	E'	E'	1	0	$\mathbb{G}_{7,0}^{(h,E',1)}$	${\tt Gh}(7, {\tt E}^\prime, {\tt 1}, {\tt 0})$	$C_4$
56	E'	E'	1	1	$\mathbb{G}_{7,1}^{(h,E',1)}$	${\tt Gh}(7, {\tt E}^\prime, {\tt 1}, {\tt 1})$	$S_4$
57	E'	E'	2	0	$\mathbb{G}_{7,0}^{(h,E',2)}$	${\tt Gh}(7,E',2,0)$	$C_2$
58	E'	E'	2	1	$\mathbb{G}_{7,1}^{(h,E',2)}$	${\tt Gh}(7, {\tt E}^{\prime}, 2, 1)$	$-S_2$
59	$E^{\prime\prime}$	$E^{\prime\prime}$	1	0	$\mathbb{G}_{7,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(7,E^{\prime\prime},1,0)$	$C_7$
60	$E^{\prime\prime}$	E''	1	1	$\mathbb{G}_{7,1}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(7,E^{\prime\prime},1,1)$	$S_7$
61	$E^{\prime\prime}$	E''	2	0	$\mathbb{G}_{7,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(7,E^{\prime\prime},2,0)$	$C_5$
62	$E^{\prime\prime}$	E''	2	1	$\mathbb{G}_{7,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(7,{\tt E}'',2,1)$	$-S_5$
63	$E^{\prime\prime}$	E''	3	0	$\mathbb{G}_{7,0}^{(h,E^{\prime\prime},3)}$	${\tt Gh}(7,E^{\prime\prime},3,0)$	$C_1$
64	E''	Ε"	3	1	$\mathbb{G}_{7,1}^{(h,E^{\prime\prime},3)}$	${\tt Gh}(7,{\tt E}'',3,1)$	$S_1$

表 9 rank 8

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
65	A'	$\mathtt{A}'$	1	_	$\mathbb{G}_8^{(h,A',1)}$	${\tt Gh(8,A',1,)}$	$C_3$
66	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_8^{(h,A',2)}$	${\tt Gh(8,A',2,)}$	$S_3$
67	A''	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_8^{(h,A^{\prime\prime},1)}$	${\tt Gh}(8,A^{\prime\prime},1,)$	$C_0$
68	A''	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_8^{(h,A^{\prime\prime},2)}$	${\tt Gh(8,A'',2,)}$	$C_6$
69	A''	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{G}_8^{(h,A^{\prime\prime},3)}$	${\tt Gh}(8, {\tt A}^{\prime\prime}, 3,)$	$S_6$
70	E'	$\mathtt{E}'$	1	0	$\mathbb{G}_{8,0}^{(h,E',1)}$	${\tt Gh}(8,E',1,0)$	$C_7$
71	E'	E'	1	1	$\mathbb{G}_{8,1}^{(h,E',1)}$	${\tt Gh}(8,E',1,1)$	$S_7$
72	E'	E'	2	0	$\mathbb{G}_{8,0}^{(h,E',2)}$	${\tt Gh}(8,E',2,0)$	$C_5$
73	E'	E'	2	1	$\mathbb{G}_{8,1}^{(h,E',2)}$	${\tt Gh}(8,E',2,1)$	$-S_5$
74	E'	E'	3	0	$\mathbb{G}_{8,0}^{(h,E',3)}$	${\tt Gh}(8,E',3,0)$	$C_1$
75	E'	E'	3	1	$\mathbb{G}_{8,1}^{(h,E',3)}$	${\tt Gh}(8,E',3,1)$	$S_1$
76	E''	Ε''	1	0	$\mathbb{G}_{8,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(8,E^{\prime\prime},1,0)$	$C_8$
77	E''	Ε''	1	1	$\mathbb{G}_{8,1}^{(h,E^{\prime\prime},1)}$	${\tt Gh}({\tt 8},{\tt E}^{\prime\prime},{\tt 1},{\tt 1})$	$-S_8$
78	E''	Ε''	2	0	$\mathbb{G}_{8,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(8,E^{\prime\prime},2,0)$	$C_4$
79	$E^{\prime\prime}$	E''	2	1	$\mathbb{G}_{8,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(8,E^{\prime\prime},2,1)$	$S_4$
80	E''	E''	3	0	$\mathbb{G}_{8,0}^{(h,E^{\prime\prime},3)}$	${\tt Gh}(8,E^{\prime\prime},3,0)$	$C_2$
81	E''	E''	3	1	$\mathbb{G}_{8,1}^{(h,E^{\prime\prime},3)}$	$Gh(8,E^{\prime\prime},3,1)$	$-S_2$

表 10 rank 9

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
82	A'	A'	1	_	$\mathbb{G}_9^{(h,A',1)}$	${\tt Gh}(9,{\tt A}',1,)$	$S_6$
83	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_9^{(h,A',2)}$	${\tt Gh}(9,{\tt A}',2,)$	$C_0$
84	A'	$\mathtt{A}'$	3	_	$\mathbb{G}_9^{(h,A',3)}$	${\tt Gh}(9,{\tt A}',3,)$	$C_6$
85	A''	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_9^{(h,A^{\prime\prime},1)}$	${\tt Gh}(9,A^{\prime\prime},1,)$	$S_9$
86	A''	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_9^{(h,A^{\prime\prime},2)}$	${\tt Gh}(9,A^{\prime\prime},2,)$	$S_3$
87	A''	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{G}_9^{(h,A^{\prime\prime},3)}$	${\tt Gh}(9, {\tt A}^{\prime\prime}, 3,)$	$C_9$
88	A''	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{G}_9^{(h,A^{\prime\prime},4)}$	${\tt Gh}(9, {\tt A}^{\prime\prime}, 4,)$	$C_3$
89	E'	E'	1	0	$\mathbb{G}_{9,0}^{(h,E',1)}$	${\tt Gh}(9,E',1,0)$	$C_8$
90	E'	E'	1	1	$\mathbb{G}_{9,1}^{(h,E',1)}$	${\tt Gh}(9,E',1,1)$	$-S_8$
91	E'	E'	2	0	$\mathbb{G}_{9,0}^{(h,E',2)}$	${\tt Gh}(9,E',2,0)$	$C_4$
92	E'	E'	2	1	$\mathbb{G}_{9,1}^{(h,E',2)}$	${\tt Gh}(9,E',2,1)$	$S_4$
93	E'	E'	3	0	$\mathbb{G}_{9,0}^{(h,E',3)}$	${\tt Gh}(9, {\tt E}^\prime, 3, 0)$	$C_2$
94	E'	E'	3	1	$\mathbb{G}_{9,1}^{(h,E',3)}$	${\tt Gh}(9,E',3,1)$	$-S_2$
95	$E^{\prime\prime}$	E''	1	0	$\mathbb{G}_{9,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(9,E'',1,0)$	$C_7$
96	$E^{\prime\prime}$	E''	1	1	$\mathbb{G}_{9,1}^{(h,E^{\prime\prime},1)}$	${\tt Gh}(9,E'',1,1)$	$S_7$
97	E''	E''	2	0	$\mathbb{G}_{9,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(9,E'',2,0)$	$C_5$
98	E''	E''	2	1	$\mathbb{G}_{9,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}(9,E'',2,1)$	$-S_5$
99	$E^{\prime\prime}$	E''	3	0	$\mathbb{G}_{9,0}^{(h,E^{\prime\prime},3)}$	${\tt Gh}(9,E'',3,0)$	$C_1$
100	E''	Ε"	3	1	$\mathbb{G}_{9,1}^{(h,E^{\prime\prime},3)}$	${\tt Gh}(9,E'',3,1)$	$S_1$

表 11 rank 10

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
101	A'	A'	1	_	$\mathbb{G}_{10}^{(h,A',1)}$	${\tt Gh(10,A',1,)}$	$C_9$
102	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_{10}^{(h,A',2)}$	${\tt Gh(10,A',2,)}$	$C_3$
103	A'	$\mathtt{A}'$	3	_	$\mathbb{G}_{10}^{(h,A',3)}$	${\tt Gh(10,A',3,)}$	$S_9$
104	A'	$\mathtt{A}'$	4	_	$\mathbb{G}_{10}^{(h,A',4)}$	${\tt Gh(10,A',4,)}$	$S_3$
105	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{G}_{10}^{(h,A^{\prime\prime},1)}$	${\tt Gh}({\tt 10},{\tt A}^{\prime\prime},{\tt 1},)$	$C_0$
106	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{G}_{10}^{(h,A^{\prime\prime},2)}$	${\tt Gh(10,A'',2,)}$	$C_6$
107	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{G}_{10}^{(h,A^{\prime\prime},3)}$	${\tt Gh(10,A'',3,)}$	$S_6$
108	E'	E'	1	0	$\mathbb{G}_{10,0}^{(h,E',1)}$	${\tt Gh}({\tt 10},{\tt E}',{\tt 1},{\tt 0})$	$C_7$
109	E'	E'	1	1	$\mathbb{G}_{10,1}^{(h,E',1)}$	${\tt Gh}({\tt 10},{\tt E}',{\tt 1},{\tt 1})$	$S_7$
110	E'	E'	2	0	$\mathbb{G}_{10,0}^{(h,E',2)}$	${\tt Gh}({\tt 10},{\tt E}',{\tt 2},{\tt 0})$	$C_5$
111	E'	E'	2	1	$\mathbb{G}_{10,1}^{(h,E',2)}$	${\tt Gh}({\tt 10},{\tt E}',{\tt 2},{\tt 1})$	$-S_5$
112	E'	E'	3	0	$\mathbb{G}_{10,0}^{(h,E',3)}$	${\tt Gh}({\tt 10},{\tt E}',{\tt 3},{\tt 0})$	$C_1$
113	E'	E'	3	1	$\mathbb{G}_{10,1}^{(h,E',3)}$	${\tt Gh}({\tt 10},{\tt E}',{\tt 3},{\tt 1})$	$S_1$
114	$E^{\prime\prime}$	$\mathtt{E}''$	1	0	$\mathbb{G}_{10,0}^{(h,E^{\prime\prime},1)}$	${\tt Gh}({\tt 10},{\tt E}^{\prime\prime},{\tt 1},{\tt 0})$	$C_{10}$
115	$E^{\prime\prime}$	$E^{\prime\prime}$	1	1	$\mathbb{G}_{10,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Gh}(\mathtt{10},\mathtt{E}'',\mathtt{1},\mathtt{1})$	$S_{10}$
116	E''	$E^{\prime\prime}$	2	0	$\mathbb{G}_{10,0}^{(h,E'',2)}$	$\mathtt{Gh}(\mathtt{10},\mathtt{E}'',\mathtt{2},\mathtt{0})$	$C_8$
117	$E^{\prime\prime}$	Ε"	2	1	$\mathbb{G}_{10,1}^{(h,E^{\prime\prime},2)}$	${\tt Gh}({\tt 10},{\tt E}^{\prime\prime},{\tt 2},{\tt 1})$	$-S_8$
118	$E^{\prime\prime}$	Ε"	3	0	$\mathbb{G}_{10,0}^{(h,E'',3)}$	${\tt Gh}(10,E^{\prime\prime},3,0)$	$C_4$
119	$E^{\prime\prime}$	Ε"	3	1	$\mathbb{G}_{10,1}^{(h,E'',3)}$	${\tt Gh}({\tt 10},{\tt E}^{\prime\prime},{\tt 3},{\tt 1})$	$S_4$
120	$E^{\prime\prime}$	Ε"	4	0	$\mathbb{G}_{10,0}^{(h,E^{\prime\prime},4)}$	${\tt Gh}({\tt 10},{\tt E}^{\prime\prime},{\tt 4},{\tt 0})$	$C_2$
121	E''	Ε"	4	1	$\mathbb{G}_{10,1}^{(h,E'',4)}$	${\tt Gh(10,E'',4,1)}$	$-S_2$

表 12 rank 11

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
122	A'	A'	1	_	$\mathbb{G}_{11}^{(h,A',1)}$	${\tt Gh(11,A',1,)}$	$S_6$
123	A'	$\mathtt{A}'$	2	_	$\mathbb{G}_{11}^{(h,A',2)}$	${\tt Gh(11,A',2,)}$	$C_0$
124	A'	$\mathtt{A}'$	3	_	$\mathbb{G}_{11}^{(h,A',3)}$	${\tt Gh(11,A',3,)}$	$C_6$
125	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	-	$\mathbb{G}_{11}^{(h,A^{\prime\prime},1)}$	${\tt Gh(11,A'',1,)}$	$S_9$
126	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	-	$\mathbb{G}_{11}^{(h,A^{\prime\prime},2)}$	${\tt Gh(11,A'',2,)}$	$S_3$
127	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{G}_{11}^{(h,A^{\prime\prime},3)}$	${\tt Gh(11,A'',3,)}$	$C_9$
128	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{G}_{11}^{(h,A^{\prime\prime},4)}$	${\tt Gh(11,A'',4,)}$	$C_3$
129	E'	E'	1	0	$\mathbb{G}_{11,0}^{(h,E',1)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 1},{\tt 0})$	$C_{10}$
130	E'	$\mathtt{E}'$	1	1	$\mathbb{G}_{11,1}^{(h,E',1)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 1},{\tt 1})$	$S_{10}$
131	E'	$\mathtt{E}'$	2	0	$\mathbb{G}_{11,0}^{(h,E',2)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 2},{\tt 0})$	$C_8$
132	E'	E'	2	1	$\mathbb{G}_{11,1}^{(h,E',2)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 2},{\tt 1})$	$-S_8$
133	E'	E'	3	0	$\mathbb{G}_{11,0}^{(h,E',3)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 3},{\tt 0})$	$C_4$
134	E'	E'	3	1	$\mathbb{G}_{11,1}^{(h,E',3)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 3},{\tt 1})$	$S_4$
135	E'	E'	4	0	$\mathbb{G}_{11,0}^{(h,E',4)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 4},{\tt 0})$	$C_2$
136	E'	E'	4	1	$\mathbb{G}_{11,1}^{(h,E',4)}$	${\tt Gh}({\tt 11},{\tt E}',{\tt 4},{\tt 1})$	$-S_2$
137	E''	$\mathtt{E}''$	1	0	$\mathbb{G}_{11,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Gh}(11,\mathtt{E}'',1,0)$	$C_{11}$
138	$E^{\prime\prime}$	Ε"	1	1	$\mathbb{G}_{11,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Gh}(\mathtt{11},\mathtt{E}'',\mathtt{1},\mathtt{1})$	$-S_{11}$
139	$E^{\prime\prime}$	Ε"	2	0	$\mathbb{G}_{11,0}^{(h,E^{\prime\prime},2)}$	${\tt Gh}({\tt 11},{\tt E}^{\prime\prime},{\tt 2},{\tt 0})$	$C_7$
140	$E^{\prime\prime}$	Ε"	2	1	$\mathbb{G}_{11,1}^{(h,E'',2)}$	${\tt Gh}({\tt 11},{\tt E}^{\prime\prime},{\tt 2},{\tt 1})$	$S_7$
141	E''	Ε"	3	0	$\mathbb{G}_{11,0}^{(h,E^{\prime\prime},3)}$	${\tt Gh}({\tt 11},{\tt E}^{\prime\prime},{\tt 3},{\tt 0})$	$C_5$
142	E''	Ε"	3	1	$\mathbb{G}_{11,1}^{(h,E^{\prime\prime},3)}$	${\tt Gh}({\tt 11},{\tt E}^{\prime\prime},{\tt 3},{\tt 1})$	$-S_5$
143	E''	$E^{\prime\prime}$	4	0	$\mathbb{G}_{11,0}^{(h,E^{\prime\prime},4)}$	${\tt Gh(11,E'',4,0)}$	$C_1$
144	E''	Ε"	4	1	$\mathbb{G}_{11,1}^{(h,E^{\prime\prime},4)}$	${\tt Gh(11,E'',4,1)}$	$S_1$