No. 17 C_{3i} -3 [trigonal] (axial)

表 1 rank 0

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

表 2 rank 1

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
2	A_g	Ag	_	-	$\mathbb{G}_1^{(h,A_g)}$	${\tt Gh(1,Ag,,)}$	C_0
3	E_g	Eg	_	0	$\mathbb{G}_{1,0}^{(h,E_g)}$	${\tt Gh(1,Eg,,0)}$	C_1
4	E_g	Eg		1	$\mathbb{G}_{1,1}^{(h,E_g)}$	${\tt Gh(1,Eg,,1)}$	S_1

表 3 rank 2

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
5	A_u	Au	-	_	$\mathbb{G}_2^{(h,A_u)}$	${\tt Gh(2,Au,,)}$	C_0
6	E_u	Eu	1	0	$\mathbb{G}_{2,0}^{(h,E_u,1)}$	${\tt Gh(2,Eu,1,0)}$	C_1
7	E_u	Eu	1	1	$\mathbb{G}_{2,1}^{(h,E_u,1)}$	${\tt Gh(2,Eu,1,1)}$	S_1
8	E_u	Eu	2	0	$\mathbb{G}_{2,0}^{(h,E_u,2)}$	${\tt Gh(2,Eu,2,0)}$	C_2
9	E_u	Eu	2	1	$\mathbb{G}_{2,1}^{(h,E_u,2)}$	${\tt Gh}(2,{\tt Eu},2,1)$	$-S_2$

表 4 rank 3

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
10	A_g	Ag	1	_	$\mathbb{G}_3^{(h,A_g,1)}$	Gh(3, Ag, 1,)	C_0
11	A_g	Ag	2	_	$\mathbb{G}_3^{(h,A_g,2)}$	${\tt Gh(3,Ag,2,)}$	S_3
12	A_g	Ag	3	_	$\mathbb{G}_3^{(h,A_g,3)}$	${\tt Gh(3,Ag,3,)}$	C_3
13	E_g	Eg	1	0	$\mathbb{G}_{3,0}^{(h,E_g,1)}$	${\tt Gh(3,Eg,1,0)}$	C_1
14	E_g	Eg	1	1	$\mathbb{G}_{3,1}^{(h,E_g,1)}$	${\tt Gh(3,Eg,1,1)}$	S_1
15	E_g	Eg	2	0	$\mathbb{G}_{3,0}^{(h,E_g,2)}$	${\tt Gh(3,Eg,2,0)}$	C_2
16	E_g	Eg	2	1	$\mathbb{G}_{3,1}^{(h,E_g,2)}$	${\tt Gh(3,Eg,2,1)}$	$-S_2$

表 5 rank 4

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
17	A_u	Au	1	_	$\mathbb{G}_4^{(h,A_u,1)}$	${\tt Gh(4,Au,1,)}$	C_0
18	A_u	Au	2	_	$\mathbb{G}_4^{(h,A_u,2)}$	${\tt Gh(4,Au,2,)}$	C_3
19	A_u	Au	3	_	$\mathbb{G}_4^{(h,A_u,3)}$	${\tt Gh(4,Au,3,)}$	S_3
20	E_u	Eu	1	0	$\mathbb{G}_{4,0}^{(h,E_u,1)}$	${\tt Gh(4,Eu,1,0)}$	C_1
21	E_u	Eu	1	1	$\mathbb{G}_{4,1}^{(h,E_u,1)}$	${\tt Gh(4,Eu,1,1)}$	S_1
22	E_u	Eu	2	0	$\mathbb{G}_{4,0}^{(h,E_u,2)}$	${\tt Gh(4,Eu,2,0)}$	C_4
23	E_u	Eu	2	1	$\mathbb{G}_{4,1}^{(h,E_u,2)}$	${\tt Gh}(4,{\tt Eu},2,1)$	S_4
24	E_u	Eu	3	0	$\mathbb{G}_{4,0}^{(h,E_u,3)}$	${\tt Gh(4,Eu,3,0)}$	C_2
25	E_u	Eu	3	1	$\mathbb{G}_{4,1}^{(h,E_u,3)}$	${\tt Gh(4,Eu,3,1)}$	$-S_2$

表 6 rank 5

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
26	A_g	Ag	1	-	$\mathbb{G}_{5}^{(h,A_{g},1)}$	Gh(5, Ag, 1,)	C_0
27	A_g	Ag	2	_	$\mathbb{G}_{5}^{(h,A_{g},2)}$	${\tt Gh(5,Ag,2,)}$	S_3
28	A_g	Ag	3	_	$\mathbb{G}_{5}^{(h,A_{g},3)}$	${\tt Gh(5,Ag,3,)}$	C_3
29	E_g	Eg	1	0	$\mathbb{G}_{5,0}^{(h,E_g,1)}$	${\tt Gh(5,Eg,1,0)}$	C_5
30	E_g	Eg	1	1	$\mathbb{G}_{5,1}^{(h,E_g,1)}$	${\tt Gh}({\tt 5},{\tt Eg},{\tt 1},{\tt 1})$	$-S_5$
31	E_g	Eg	2	0	$\mathbb{G}_{5,0}^{(h,E_g,2)}$	${\tt Gh(5,Eg,2,0)}$	C_1
32	E_g	Eg	2	1	$\mathbb{G}_{5,1}^{(h,E_g,2)}$	${\tt Gh(5,Eg,2,1)}$	S_1
33	E_g	Eg	3	0	$\mathbb{G}_{5,0}^{(h,E_g,3)}$	${\tt Gh(5,Eg,3,0)}$	C_4
34	E_g	Eg	3	1	$\mathbb{G}_{5,1}^{(h,E_g,3)}$	${\tt Gh}({\tt 5},{\tt Eg},{\tt 3},{\tt 1})$	S_4
35	E_g	Eg	4	0	$\mathbb{G}_{5,0}^{(h,E_g,4)}$	${\tt Gh(5,Eg,4,0)}$	C_2
36	E_g	Eg	4	1	$\mathbb{G}_{5,1}^{(h,E_g,4)}$	${\tt Gh(5,Eg,4,1)}$	$-S_2$

表 7 rank 6

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
37	A_u	Au	1	_	$\mathbb{G}_6^{(h,A_u,1)}$	${\tt Gh(6,Au,1,)}$	C_0
38	A_u	Au	2	_	$\mathbb{G}_6^{(h,A_u,2)}$	${\tt Gh(6,Au,2,)}$	C_6
39	A_u	Au	3	_	$\mathbb{G}_6^{(h,A_u,3)}$	${\tt Gh(6,Au,3,)}$	S_6
40	A_u	Au	4	_	$\mathbb{G}_6^{(h,A_u,4)}$	${\tt Gh(6,Au,4,)}$	C_3
41	A_u	Au	5	_	$\mathbb{G}_6^{(h,A_u,5)}$	${\tt Gh(6,Au,5,)}$	S_3
42	E_u	Eu	1	0	$\mathbb{G}_{6,0}^{(h,E_u,1)}$	${\tt Gh}(6, {\tt Eu}, {\tt 1}, {\tt 0})$	C_5
43	E_u	Eu	1	1	$\mathbb{G}_{6,1}^{(h,E_u,1)}$	${\tt Gh(6,Eu,1,1)}$	$-S_5$
44	E_u	Eu	2	0	$\mathbb{G}_{6,0}^{(h,E_u,2)}$	${\tt Gh}(6,{\tt Eu},2,0)$	C_1
45	E_u	Eu	2	1	$\mathbb{G}_{6,1}^{(h,E_u,2)}$	${\tt Gh}(6,{\tt Eu},2,1)$	S_1
46	E_u	Eu	3	0	$\mathbb{G}_{6,0}^{(h,E_u,3)}$	${\tt Gh(6,Eu,3,0)}$	C_4
47	E_u	Eu	3	1	$\mathbb{G}_{6,1}^{(h,E_u,3)}$	${\tt Gh(6,Eu,3,1)}$	S_4
48	E_u	Eu	4	0	$\mathbb{G}_{6,0}^{(h,E_u,4)}$	${\tt Gh(6,Eu,4,0)}$	C_2
49	E_u	Eu	4	1	$\mathbb{G}_{6,1}^{(h,E_u,4)}$	${\tt Gh(6,Eu,4,1)}$	$-S_2$

表 8 rank 7

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
50	A_g	Ag	1	_	$\mathbb{G}_7^{(h,A_g,1)}$	${\tt Gh(7,Ag,1,)}$	S_6
51	A_g	Ag	2	_	$\mathbb{G}_7^{(h,A_g,2)}$	${\tt Gh(7,Ag,2,)}$	C_0
52	A_g	Ag	3	-	$\mathbb{G}_7^{(h,A_g,3)}$	${\tt Gh(7,Ag,3,)}$	C_6
53	A_g	Ag	4	-	$\mathbb{G}_7^{(h,A_g,4)}$	${\tt Gh(7,Ag,4,)}$	S_3
54	A_g	Ag	5	-	$\mathbb{G}_7^{(h,A_g,5)}$	${\tt Gh(7,Ag,5,)}$	C_3
55	E_g	Eg	1	0	$\mathbb{G}_{7,0}^{(h,E_g,1)}$	${\tt Gh(7,Eg,1,0)}$	C_7
56	E_g	Eg	1	1	$\mathbb{G}_{7,1}^{(h,E_g,1)}$	${\tt Gh(7,Eg,1,1)}$	S_7
57	E_g	Eg	2	0	$\mathbb{G}_{7,0}^{(h,E_g,2)}$	${\tt Gh(7,Eg,2,0)}$	C_5
58	E_g	Eg	2	1	$\mathbb{G}_{7,1}^{(h,E_g,2)}$	${\tt Gh}(7,{\tt Eg},2,1)$	$-S_5$
59	E_g	Eg	3	0	$\mathbb{G}_{7,0}^{(h,E_g,3)}$	${\tt Gh(7,Eg,3,0)}$	C_1
60	E_g	Eg	3	1	$\mathbb{G}_{7,1}^{(h,E_g,3)}$	${\tt Gh}(7,{\tt Eg},3,1)$	S_1
61	E_g	Eg	4	0	$\mathbb{G}_{7,0}^{(h,E_g,4)}$	${\tt Gh(7,Eg,4,0)}$	C_4
62	E_g	Eg	4	1	$\mathbb{G}_{7,1}^{(h,E_g,4)}$	${\tt Gh}({\tt 7},{\tt Eg},{\tt 4},{\tt 1})$	S_4
63	E_g	Eg	5	0	$\mathbb{G}_{7,0}^{(h,E_g,5)}$	${\tt Gh(7,Eg,5,0)}$	C_2
64	E_g	Eg	5	1	$\mathbb{G}_{7,1}^{(h,E_g,5)}$	${\tt Gh(7,Eg,5,1)}$	$-S_2$

表 9 rank 8

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
65	A_u	Au	1	_	$\mathbb{G}_8^{(h,A_u,1)}$	Gh(8, Au, 1,)	C_0
66	A_u	Au	2	_	$\mathbb{G}_8^{(h,A_u,2)}$	${\tt Gh(8,Au,2,)}$	C_6
67	A_u	Au	3	_	$\mathbb{G}_8^{(h,A_u,3)}$	${\tt Gh(8,Au,3,)}$	S_6
68	A_u	Au	4	-	$\mathbb{G}_8^{(h,A_u,4)}$	${\tt Gh(8,Au,4,)}$	C_3
69	A_u	Au	5	-	$\mathbb{G}_8^{(h,A_u,5)}$	${\tt Gh(8,Au,5,)}$	S_3
70	E_u	Eu	1	0	$\mathbb{G}_{8,0}^{(h,E_u,1)}$	${\tt Gh(8,Eu,1,0)}$	C_7
71	E_u	Eu	1	1	$\mathbb{G}_{8,1}^{(h,E_u,1)}$	${\tt Gh(8,Eu,1,1)}$	S_7
72	E_u	Eu	2	0	$\mathbb{G}_{8,0}^{(h,E_u,2)}$	${\tt Gh(8,Eu,2,0)}$	C_5
73	E_u	Eu	2	1	$\mathbb{G}_{8,1}^{(h,E_u,2)}$	${\tt Gh(8,Eu,2,1)}$	$-S_5$
74	E_u	Eu	3	0	$\mathbb{G}_{8,0}^{(h,E_u,3)}$	${\tt Gh(8,Eu,3,0)}$	C_1
75	E_u	Eu	3	1	$\mathbb{G}_{8,1}^{(h,E_u,3)}$	${\tt Gh(8,Eu,3,1)}$	S_1
76	E_u	Eu	4	0	$\mathbb{G}_{8,0}^{(h,E_u,4)}$	${\tt Gh(8,Eu,4,0)}$	C_8
77	E_u	Eu	4	1	$\mathbb{G}_{8,1}^{(h,E_u,4)}$	${\tt Gh(8,Eu,4,1)}$	$-S_8$
78	E_u	Eu	5	0	$\mathbb{G}_{8,0}^{(h,E_u,5)}$	${\tt Gh(8,Eu,5,0)}$	C_4
79	E_u	Eu	5	1	$\mathbb{G}_{8,1}^{(h,E_u,5)}$	${\tt Gh(8,Eu,5,1)}$	S_4
80	E_u	Eu	6	0	$\mathbb{G}_{8,0}^{(h,E_u,6)}$	${\tt Gh(8,Eu,6,0)}$	C_2
81	E_u	Eu	6	1	$\mathbb{G}_{8,1}^{(h,E_u,6)}$	$\operatorname{Gh}(8,\operatorname{Eu},6,1)$	$-S_2$

表 10 rank 9

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
82	A_g	Ag	1	_	$\mathbb{G}_9^{(h,A_g,1)}$	Gh(9, Ag, 1,)	S_6
83	A_g	Ag	2	_	$\mathbb{G}_9^{(h,A_g,2)}$	${\tt Gh(9,Ag,2,)}$	C_0
84	A_g	Ag	3	_	$\mathbb{G}_9^{(h,A_g,3)}$	${\tt Gh(9,Ag,3,)}$	C_6
85	A_g	Ag	4	-	$\mathbb{G}_9^{(h,A_g,4)}$	${\tt Gh(9,Ag,4,)}$	S_9
86	A_g	Ag	5	_	$\mathbb{G}_9^{(h,A_g,5)}$	${\tt Gh(9,Ag,5,)}$	S_3
87	A_g	Ag	6	_	$\mathbb{G}_9^{(h,A_g,6)}$	${\tt Gh(9,Ag,6,)}$	C_9
88	A_g	Ag	7	_	$\mathbb{G}_9^{(h,A_g,7)}$	${\tt Gh(9,Ag,7,)}$	C_3
89	E_g	Eg	1	0	$\mathbb{G}_{9,0}^{(h,E_g,1)}$	${\tt Gh(9,Eg,1,0)}$	C_7
90	E_g	Eg	1	1	$\mathbb{G}_{9,1}^{(h,E_g,1)}$	${\tt Gh(9,Eg,1,1)}$	S_7
91	E_g	Eg	2	0	$\mathbb{G}_{9,0}^{(h,E_g,2)}$	${\tt Gh(9,Eg,2,0)}$	C_5
92	E_g	Eg	2	1	$\mathbb{G}_{9,1}^{(h,E_g,2)}$	${\tt Gh(9,Eg,2,1)}$	$-S_5$
93	E_g	Eg	3	0	$\mathbb{G}_{9,0}^{(h,E_g,3)}$	${\tt Gh(9,Eg,3,0)}$	C_1
94	E_g	Eg	3	1	$\mathbb{G}_{9,1}^{(h,E_g,3)}$	${\tt Gh(9,Eg,3,1)}$	S_1
95	E_g	Eg	4	0	$\mathbb{G}_{9,0}^{(h,E_g,4)}$	${\tt Gh(9,Eg,4,0)}$	C_8
96	E_g	Eg	4	1	$\mathbb{G}_{9,1}^{(h,E_g,4)}$	${\tt Gh(9,Eg,4,1)}$	$-S_8$
97	E_g	Eg	5	0	$\mathbb{G}_{9,0}^{(h,E_g,5)}$	${\tt Gh(9,Eg,5,0)}$	C_4
98	E_g	Eg	5	1	$\mathbb{G}_{9,1}^{(h,E_g,5)}$	${\tt Gh(9,Eg,5,1)}$	S_4
99	E_g	Eg	6	0	$\mathbb{G}_{9,0}^{(h,E_g,6)}$	${\tt Gh(9,Eg,6,0)}$	C_2
100	E_g	Eg	6	1	$\mathbb{G}_{9,1}^{(h,E_g,6)}$	$\mathrm{Gh}(9,\mathrm{Eg},6,1)$	$-S_2$

表 11 rank 10

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
101	A_u	Au	1	_	$\mathbb{G}_{10}^{(h,A_u,1)}$	${\tt Gh(10,Au,1,)}$	C_0
102	A_u	Au	2	_	$\mathbb{G}_{10}^{(h,A_u,2)}$	${\tt Gh(10,Au,2,)}$	C_6
103	A_u	Au	3	_	$\mathbb{G}_{10}^{(h,A_u,3)}$	${\tt Gh(10,Au,3,)}$	S_6
104	A_u	Au	4	_	$\mathbb{G}_{10}^{(h,A_u,4)}$	${\tt Gh(10,Au,4,)}$	C_9
105	A_u	Au	5	_	$\mathbb{G}_{10}^{(h,A_u,5)}$	${\tt Gh(10,Au,5,)}$	C_3
106	A_u	Au	6	_	$\mathbb{G}_{10}^{(h,A_u,6)}$	${\tt Gh(10,Au,6,)}$	S_9
107	A_u	Au	7	_	$\mathbb{G}_{10}^{(h,A_u,7)}$	${\tt Gh(10,Au,7,)}$	S_3
108	E_u	Eu	1	0	$\mathbb{G}_{10,0}^{(h,E_u,1)}$	${\tt Gh(10,Eu,1,0)}$	C_7
109	E_u	Eu	1	1	$\mathbb{G}_{10,1}^{(h,E_u,1)}$	${\tt Gh(10,Eu,1,1)}$	S_7
110	E_u	Eu	2	0	$\mathbb{G}_{10,0}^{(h,E_u,2)}$	${\tt Gh(10,Eu,2,0)}$	C_5
111	E_u	Eu	2	1	$\mathbb{G}_{10,1}^{(h,E_u,2)}$	${\tt Gh(10,Eu,2,1)}$	$-S_5$
112	E_u	Eu	3	0	$\mathbb{G}_{10,0}^{(h,E_u,3)}$	${\tt Gh(10,Eu,3,0)}$	C_1
113	E_u	Eu	3	1	$\mathbb{G}_{10,1}^{(h,E_u,3)}$	${\tt Gh(10,Eu,3,1)}$	S_1
114	E_u	Eu	4	0	$\mathbb{G}_{10,0}^{(h,E_u,4)}$	${\tt Gh(10,Eu,4,0)}$	C_{10}
115	E_u	Eu	4	1	$\mathbb{G}_{10,1}^{(h,E_u,4)}$	${\tt Gh(10,Eu,4,1)}$	S_{10}
116	E_u	Eu	5	0	$\mathbb{G}_{10,0}^{(h,E_u,5)}$	${\tt Gh(10,Eu,5,0)}$	C_8
117	E_u	Eu	5	1	$\mathbb{G}_{10,1}^{(h,E_u,5)}$	${\tt Gh(10,Eu,5,1)}$	$-S_8$
118	E_u	Eu	6	0	$\mathbb{G}_{10,0}^{(h,E_u,6)}$	${\tt Gh(10,Eu,6,0)}$	C_4
119	E_u	Eu	6	1	$\mathbb{G}_{10,1}^{(h,E_u,6)}$	${\tt Gh(10,Eu,6,1)}$	S_4
120	E_u	Eu	7	0	$\mathbb{G}_{10,0}^{(h,E_u,7)}$	${\tt Gh(10,Eu,7,0)}$	C_2
121	E_u	Eu	7	1	$\mathbb{G}_{10,1}^{(h,E_u,7)}$	Gh(10, Eu, 7, 1)	$-S_2$

表 12 rank 11

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
122	A_g	Ag	1	_	$\mathbb{G}_{11}^{(h,A_g,1)}$	Gh(11, Ag, 1,)	S_6
123	A_g	Ag	2	-	$\mathbb{G}_{11}^{(h,A_g,2)}$	${\tt Gh(11,Ag,2,)}$	C_0
124	A_g	Ag	3	_	$\mathbb{G}_{11}^{(h,A_g,3)}$	${\tt Gh(11,Ag,3,)}$	C_6
125	A_g	Ag	4	_	$\mathbb{G}_{11}^{(h,A_g,4)}$	${\tt Gh(11,Ag,4,)}$	S_9
126	A_g	Ag	5	_	$\mathbb{G}_{11}^{(h,A_g,5)}$	${\tt Gh(11,Ag,5,)}$	S_3
127	A_g	Ag	6	_	$\mathbb{G}_{11}^{(h,A_g,6)}$	${\tt Gh(11,Ag,6,)}$	C_9
128	A_g	Ag	7	_	$\mathbb{G}_{11}^{(h,A_g,7)}$	${\tt Gh(11,Ag,7,)}$	C_3
129	E_g	Eg	1	0	$\mathbb{G}_{11,0}^{(h,E_g,1)}$	$\mathtt{Gh}(\mathtt{11},\mathtt{Eg},\mathtt{1},\mathtt{0})$	C_{11}
130	E_g	Eg	1	1	$\mathbb{G}_{11,1}^{(h,E_g,1)}$	$\mathtt{Gh}(\mathtt{11},\mathtt{Eg},\mathtt{1},\mathtt{1})$	$-S_{11}$
131	E_g	Eg	2	0	$\mathbb{G}_{11,0}^{(h,E_g,2)}$	${\tt Gh(11,Eg,2,0)}$	C_7
132	E_g	Eg	2	1	$\mathbb{G}_{11,1}^{(h,E_g,2)}$	${\tt Gh(11,Eg,2,1)}$	S_7
133	E_g	Eg	3	0	$\mathbb{G}_{11,0}^{(h,E_g,3)}$	${\tt Gh(11,Eg,3,0)}$	C_5
134	E_g	Eg	3	1	$\mathbb{G}_{11,1}^{(h,E_g,3)}$	${\tt Gh(11,Eg,3,1)}$	$-S_5$
135	E_g	Eg	4	0	$\mathbb{G}_{11,0}^{(h,E_g,4)}$	${\tt Gh(11,Eg,4,0)}$	C_1
136	E_g	Eg	4	1	$\mathbb{G}_{11,1}^{(h,E_g,4)}$	$\mathtt{Gh}(\mathtt{11},\mathtt{Eg},\mathtt{4},\mathtt{1})$	S_1
137	E_g	Eg	5	0	$\mathbb{G}_{11,0}^{(h,E_g,5)}$	${\tt Gh(11,Eg,5,0)}$	C_{10}
138	E_g	Eg	5	1	$\mathbb{G}_{11,1}^{(h,E_g,5)}$	${\tt Gh(11,Eg,5,1)}$	S_{10}
139	E_g	Eg	6	0	$\mathbb{G}_{11,0}^{(h,E_g,6)}$	${\tt Gh(11,Eg,6,0)}$	C_8
140	E_g	Eg	6	1	$\mathbb{G}_{11,1}^{(h,E_g,6)}$	${\tt Gh(11,Eg,6,1)}$	$-S_8$
141	E_g	Eg	7	0	$\mathbb{G}_{11,0}^{(h,E_g,7)}$	${\tt Gh(11,Eg,7,0)}$	C_4
142	E_g	Eg	7	1	$\mathbb{G}_{11,1}^{(h,E_g,7)}$	${\tt Gh(11,Eg,7,1)}$	S_4
143	E_g	Eg	8	0	$\mathbb{G}_{11,0}^{(h,E_g,8)}$	${\tt Gh(11,Eg,8,0)}$	C_2
144	E_g	Eg	8	1	$\mathbb{G}_{11,1}^{(h,E_g,8)}$	${\tt Gh(11,Eg,8,1)}$	$-S_2$