

No. 20  $D_{3d} - 31m$  (-31m setting) [ trigonal ] (axial)

表 1 rank 0

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
1	$A_{1u}$	<b>A1u</b>	—	—	$\mathbb{G}_0^{(h,A_{1u})}$	<b>Gh(0, A1u, , )</b>	$C_0$

表 2 rank 1

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
2	$A_{2g}$	<b>A2g</b>	—	—	$\mathbb{G}_1^{(h,A_{2g})}$	<b>Gh(1, A2g, , )</b>	$C_0$
3	$E_g$	<b>Eg</b>	—	0	$\mathbb{G}_{1,0}^{(h,E_g)}$	<b>Gh(1, Eg, , 0)</b>	$-S_1$
4	$E_g$	<b>Eg</b>	—	1	$\mathbb{G}_{1,1}^{(h,E_g)}$	<b>Gh(1, Eg, , 1)</b>	$C_1$

表 3 rank 2

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
5	$A_{1u}$	<b>A1u</b>	—	—	$\mathbb{G}_2^{(h,A_{1u})}$	<b>Gh(2, A1u, , )</b>	$C_0$
6	$E_u$	<b>Eu</b>	1	0	$\mathbb{G}_{2,0}^{(h,E_u,1)}$	<b>Gh(2, Eu, 1, 0)</b>	$-S_1$
7	$E_u$	<b>Eu</b>	1	1	$\mathbb{G}_{2,1}^{(h,E_u,1)}$	<b>Gh(2, Eu, 1, 1)</b>	$C_1$
8	$E_u$	<b>Eu</b>	2	0	$\mathbb{G}_{2,0}^{(h,E_u,2)}$	<b>Gh(2, Eu, 2, 0)</b>	$S_2$
9	$E_u$	<b>Eu</b>	2	1	$\mathbb{G}_{2,1}^{(h,E_u,2)}$	<b>Gh(2, Eu, 2, 1)</b>	$C_2$

表 4 rank 3

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
10	$A_{1g}$	<b>A1g</b>	—	—	$\mathbb{G}_3^{(h,A_{1g})}$	<b>Gh(3, A1g, , )</b>	$S_3$
11	$A_{2g}$	<b>A2g</b>	1	—	$\mathbb{G}_3^{(h,A_{2g},1)}$	<b>Gh(3, A2g, 1, )</b>	$C_0$
12	$A_{2g}$	<b>A2g</b>	2	—	$\mathbb{G}_3^{(h,A_{2g},2)}$	<b>Gh(3, A2g, 2, )</b>	$C_3$
13	$E_g$	<b>Eg</b>	1	0	$\mathbb{G}_{3,0}^{(h,E_g,1)}$	<b>Gh(3, Eg, 1, 0)</b>	$-S_1$
14	$E_g$	<b>Eg</b>	1	1	$\mathbb{G}_{3,1}^{(h,E_g,1)}$	<b>Gh(3, Eg, 1, 1)</b>	$C_1$
15	$E_g$	<b>Eg</b>	2	0	$\mathbb{G}_{3,0}^{(h,E_g,2)}$	<b>Gh(3, Eg, 2, 0)</b>	$S_2$
16	$E_g$	<b>Eg</b>	2	1	$\mathbb{G}_{3,1}^{(h,E_g,2)}$	<b>Gh(3, Eg, 2, 1)</b>	$C_2$

表 5 rank 4

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
17	$A_{1u}$	<b>A1u</b>	1	—	$\mathbb{G}_4^{(h,A_{1u},1)}$	<b>Gh(4, A1u, 1, )</b>	$C_0$
18	$A_{1u}$	<b>A1u</b>	2	—	$\mathbb{G}_4^{(h,A_{1u},2)}$	<b>Gh(4, A1u, 2, )</b>	$C_3$
19	$A_{2u}$	<b>A2u</b>	—	—	$\mathbb{G}_4^{(h,A_{2u})}$	<b>Gh(4, A2u, , )</b>	$S_3$
20	$E_u$	<b>Eu</b>	1	0	$\mathbb{G}_{4,0}^{(h,E_u,1)}$	<b>Gh(4, Eu, 1, 0)</b>	$-S_1$
21	$E_u$	<b>Eu</b>	1	1	$\mathbb{G}_{4,1}^{(h,E_u,1)}$	<b>Gh(4, Eu, 1, 1)</b>	$C_1$
22	$E_u$	<b>Eu</b>	2	0	$\mathbb{G}_{4,0}^{(h,E_u,2)}$	<b>Gh(4, Eu, 2, 0)</b>	$-S_4$
23	$E_u$	<b>Eu</b>	2	1	$\mathbb{G}_{4,1}^{(h,E_u,2)}$	<b>Gh(4, Eu, 2, 1)</b>	$C_4$
24	$E_u$	<b>Eu</b>	3	0	$\mathbb{G}_{4,0}^{(h,E_u,3)}$	<b>Gh(4, Eu, 3, 0)</b>	$S_2$
25	$E_u$	<b>Eu</b>	3	1	$\mathbb{G}_{4,1}^{(h,E_u,3)}$	<b>Gh(4, Eu, 3, 1)</b>	$C_2$

表 6 rank 5

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
26	$A_{1g}$	<b>A1g</b>	—	—	$\mathbb{G}_5^{(h,A_{1g})}$	$\text{Gh}(5, \text{A1g}, , )$	$S_3$
27	$A_{2g}$	<b>A2g</b>	1	—	$\mathbb{G}_5^{(h,A_{2g},1)}$	$\text{Gh}(5, \text{A2g}, 1, )$	$C_0$
28	$A_{2g}$	<b>A2g</b>	2	—	$\mathbb{G}_5^{(h,A_{2g},2)}$	$\text{Gh}(5, \text{A2g}, 2, )$	$C_3$
29	$E_g$	<b>Eg</b>	1	0	$\mathbb{G}_{5,0}^{(h,E_g,1)}$	$\text{Gh}(5, \text{Eg}, 1, 0)$	$S_5$
30	$E_g$	<b>Eg</b>	1	1	$\mathbb{G}_{5,1}^{(h,E_g,1)}$	$\text{Gh}(5, \text{Eg}, 1, 1)$	$C_5$
31	$E_g$	<b>Eg</b>	2	0	$\mathbb{G}_{5,0}^{(h,E_g,2)}$	$\text{Gh}(5, \text{Eg}, 2, 0)$	$-S_1$
32	$E_g$	<b>Eg</b>	2	1	$\mathbb{G}_{5,1}^{(h,E_g,2)}$	$\text{Gh}(5, \text{Eg}, 2, 1)$	$C_1$
33	$E_g$	<b>Eg</b>	3	0	$\mathbb{G}_{5,0}^{(h,E_g,3)}$	$\text{Gh}(5, \text{Eg}, 3, 0)$	$-S_4$
34	$E_g$	<b>Eg</b>	3	1	$\mathbb{G}_{5,1}^{(h,E_g,3)}$	$\text{Gh}(5, \text{Eg}, 3, 1)$	$C_4$
35	$E_g$	<b>Eg</b>	4	0	$\mathbb{G}_{5,0}^{(h,E_g,4)}$	$\text{Gh}(5, \text{Eg}, 4, 0)$	$S_2$
36	$E_g$	<b>Eg</b>	4	1	$\mathbb{G}_{5,1}^{(h,E_g,4)}$	$\text{Gh}(5, \text{Eg}, 4, 1)$	$C_2$

表 7 rank 6

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
37	$A_{1u}$	<b>A1u</b>	1	—	$\mathbb{G}_6^{(h,A_{1u},1)}$	$\text{Gh}(6, \text{A1u}, 1, )$	$C_0$
38	$A_{1u}$	<b>A1u</b>	2	—	$\mathbb{G}_6^{(h,A_{1u},2)}$	$\text{Gh}(6, \text{A1u}, 2, )$	$C_6$
39	$A_{1u}$	<b>A1u</b>	3	—	$\mathbb{G}_6^{(h,A_{1u},3)}$	$\text{Gh}(6, \text{A1u}, 3, )$	$C_3$
40	$A_{2u}$	<b>A2u</b>	1	—	$\mathbb{G}_6^{(h,A_{2u},1)}$	$\text{Gh}(6, \text{A2u}, 1, )$	$S_6$
41	$A_{2u}$	<b>A2u</b>	2	—	$\mathbb{G}_6^{(h,A_{2u},2)}$	$\text{Gh}(6, \text{A2u}, 2, )$	$S_3$
42	$E_u$	<b>Eu</b>	1	0	$\mathbb{G}_{6,0}^{(h,E_u,1)}$	$\text{Gh}(6, \text{Eu}, 1, 0)$	$S_5$
43	$E_u$	<b>Eu</b>	1	1	$\mathbb{G}_{6,1}^{(h,E_u,1)}$	$\text{Gh}(6, \text{Eu}, 1, 1)$	$C_5$
44	$E_u$	<b>Eu</b>	2	0	$\mathbb{G}_{6,0}^{(h,E_u,2)}$	$\text{Gh}(6, \text{Eu}, 2, 0)$	$-S_1$
45	$E_u$	<b>Eu</b>	2	1	$\mathbb{G}_{6,1}^{(h,E_u,2)}$	$\text{Gh}(6, \text{Eu}, 2, 1)$	$C_1$
46	$E_u$	<b>Eu</b>	3	0	$\mathbb{G}_{6,0}^{(h,E_u,3)}$	$\text{Gh}(6, \text{Eu}, 3, 0)$	$-S_4$
47	$E_u$	<b>Eu</b>	3	1	$\mathbb{G}_{6,1}^{(h,E_u,3)}$	$\text{Gh}(6, \text{Eu}, 3, 1)$	$C_4$
48	$E_u$	<b>Eu</b>	4	0	$\mathbb{G}_{6,0}^{(h,E_u,4)}$	$\text{Gh}(6, \text{Eu}, 4, 0)$	$S_2$
49	$E_u$	<b>Eu</b>	4	1	$\mathbb{G}_{6,1}^{(h,E_u,4)}$	$\text{Gh}(6, \text{Eu}, 4, 1)$	$C_2$

表 8 rank 7

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
50	$A_{1g}$	<b>A1g</b>	1	—	$\mathbb{G}_7^{(h,A_{1g},1)}$	Gh(7, A1g, 1, )	$S_6$
51	$A_{1g}$	<b>A1g</b>	2	—	$\mathbb{G}_7^{(h,A_{1g},2)}$	Gh(7, A1g, 2, )	$S_3$
52	$A_{2g}$	<b>A2g</b>	1	—	$\mathbb{G}_7^{(h,A_{2g},1)}$	Gh(7, A2g, 1, )	$C_0$
53	$A_{2g}$	<b>A2g</b>	2	—	$\mathbb{G}_7^{(h,A_{2g},2)}$	Gh(7, A2g, 2, )	$C_6$
54	$A_{2g}$	<b>A2g</b>	3	—	$\mathbb{G}_7^{(h,A_{2g},3)}$	Gh(7, A2g, 3, )	$C_3$
55	$E_g$	<b>Eg</b>	1	0	$\mathbb{G}_{7,0}^{(h,E_g,1)}$	Gh(7, Eg, 1, 0)	$-S_7$
56	$E_g$	<b>Eg</b>	1	1	$\mathbb{G}_{7,1}^{(h,E_g,1)}$	Gh(7, Eg, 1, 1)	$C_7$
57	$E_g$	<b>Eg</b>	2	0	$\mathbb{G}_{7,0}^{(h,E_g,2)}$	Gh(7, Eg, 2, 0)	$S_5$
58	$E_g$	<b>Eg</b>	2	1	$\mathbb{G}_{7,1}^{(h,E_g,2)}$	Gh(7, Eg, 2, 1)	$C_5$
59	$E_g$	<b>Eg</b>	3	0	$\mathbb{G}_{7,0}^{(h,E_g,3)}$	Gh(7, Eg, 3, 0)	$-S_1$
60	$E_g$	<b>Eg</b>	3	1	$\mathbb{G}_{7,1}^{(h,E_g,3)}$	Gh(7, Eg, 3, 1)	$C_1$
61	$E_g$	<b>Eg</b>	4	0	$\mathbb{G}_{7,0}^{(h,E_g,4)}$	Gh(7, Eg, 4, 0)	$-S_4$
62	$E_g$	<b>Eg</b>	4	1	$\mathbb{G}_{7,1}^{(h,E_g,4)}$	Gh(7, Eg, 4, 1)	$C_4$
63	$E_g$	<b>Eg</b>	5	0	$\mathbb{G}_{7,0}^{(h,E_g,5)}$	Gh(7, Eg, 5, 0)	$S_2$
64	$E_g$	<b>Eg</b>	5	1	$\mathbb{G}_{7,1}^{(h,E_g,5)}$	Gh(7, Eg, 5, 1)	$C_2$

表 9 rank 8

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
65	$A_{1u}$	<b>A1u</b>	1	—	$\mathbb{G}_8^{(h,A_{1u},1)}$	Gh(8, A1u, 1, )	$C_0$
66	$A_{1u}$	<b>A1u</b>	2	—	$\mathbb{G}_8^{(h,A_{1u},2)}$	Gh(8, A1u, 2, )	$C_6$
67	$A_{1u}$	<b>A1u</b>	3	—	$\mathbb{G}_8^{(h,A_{1u},3)}$	Gh(8, A1u, 3, )	$C_3$
68	$A_{2u}$	<b>A2u</b>	1	—	$\mathbb{G}_8^{(h,A_{2u},1)}$	Gh(8, A2u, 1, )	$S_6$
69	$A_{2u}$	<b>A2u</b>	2	—	$\mathbb{G}_8^{(h,A_{2u},2)}$	Gh(8, A2u, 2, )	$S_3$
70	$E_u$	<b>Eu</b>	1	0	$\mathbb{G}_{8,0}^{(h,E_u,1)}$	Gh(8, Eu, 1, 0)	$-S_7$
71	$E_u$	<b>Eu</b>	1	1	$\mathbb{G}_{8,1}^{(h,E_u,1)}$	Gh(8, Eu, 1, 1)	$C_7$
72	$E_u$	<b>Eu</b>	2	0	$\mathbb{G}_{8,0}^{(h,E_u,2)}$	Gh(8, Eu, 2, 0)	$S_5$
73	$E_u$	<b>Eu</b>	2	1	$\mathbb{G}_{8,1}^{(h,E_u,2)}$	Gh(8, Eu, 2, 1)	$C_5$
74	$E_u$	<b>Eu</b>	3	0	$\mathbb{G}_{8,0}^{(h,E_u,3)}$	Gh(8, Eu, 3, 0)	$-S_1$
75	$E_u$	<b>Eu</b>	3	1	$\mathbb{G}_{8,1}^{(h,E_u,3)}$	Gh(8, Eu, 3, 1)	$C_1$
76	$E_u$	<b>Eu</b>	4	0	$\mathbb{G}_{8,0}^{(h,E_u,4)}$	Gh(8, Eu, 4, 0)	$S_8$
77	$E_u$	<b>Eu</b>	4	1	$\mathbb{G}_{8,1}^{(h,E_u,4)}$	Gh(8, Eu, 4, 1)	$C_8$
78	$E_u$	<b>Eu</b>	5	0	$\mathbb{G}_{8,0}^{(h,E_u,5)}$	Gh(8, Eu, 5, 0)	$-S_4$
79	$E_u$	<b>Eu</b>	5	1	$\mathbb{G}_{8,1}^{(h,E_u,5)}$	Gh(8, Eu, 5, 1)	$C_4$
80	$E_u$	<b>Eu</b>	6	0	$\mathbb{G}_{8,0}^{(h,E_u,6)}$	Gh(8, Eu, 6, 0)	$S_2$
81	$E_u$	<b>Eu</b>	6	1	$\mathbb{G}_{8,1}^{(h,E_u,6)}$	Gh(8, Eu, 6, 1)	$C_2$

表 10 rank 9

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
82	$A_{1g}$	<b>A1g</b>	1	—	$\mathbb{G}_9^{(h,A_{1g},1)}$	Gh(9, A1g, 1, )	$S_6$
83	$A_{1g}$	<b>A1g</b>	2	—	$\mathbb{G}_9^{(h,A_{1g},2)}$	Gh(9, A1g, 2, )	$S_9$
84	$A_{1g}$	<b>A1g</b>	3	—	$\mathbb{G}_9^{(h,A_{1g},3)}$	Gh(9, A1g, 3, )	$S_3$
85	$A_{2g}$	<b>A2g</b>	1	—	$\mathbb{G}_9^{(h,A_{2g},1)}$	Gh(9, A2g, 1, )	$C_0$
86	$A_{2g}$	<b>A2g</b>	2	—	$\mathbb{G}_9^{(h,A_{2g},2)}$	Gh(9, A2g, 2, )	$C_6$
87	$A_{2g}$	<b>A2g</b>	3	—	$\mathbb{G}_9^{(h,A_{2g},3)}$	Gh(9, A2g, 3, )	$C_9$
88	$A_{2g}$	<b>A2g</b>	4	—	$\mathbb{G}_9^{(h,A_{2g},4)}$	Gh(9, A2g, 4, )	$C_3$
89	$E_g$	<b>Eg</b>	1	0	$\mathbb{G}_{9,0}^{(h,E_g,1)}$	Gh(9, Eg, 1, 0)	$-S_7$
90	$E_g$	<b>Eg</b>	1	1	$\mathbb{G}_{9,1}^{(h,E_g,1)}$	Gh(9, Eg, 1, 1)	$C_7$
91	$E_g$	<b>Eg</b>	2	0	$\mathbb{G}_{9,0}^{(h,E_g,2)}$	Gh(9, Eg, 2, 0)	$S_5$
92	$E_g$	<b>Eg</b>	2	1	$\mathbb{G}_{9,1}^{(h,E_g,2)}$	Gh(9, Eg, 2, 1)	$C_5$
93	$E_g$	<b>Eg</b>	3	0	$\mathbb{G}_{9,0}^{(h,E_g,3)}$	Gh(9, Eg, 3, 0)	$-S_1$
94	$E_g$	<b>Eg</b>	3	1	$\mathbb{G}_{9,1}^{(h,E_g,3)}$	Gh(9, Eg, 3, 1)	$C_1$
95	$E_g$	<b>Eg</b>	4	0	$\mathbb{G}_{9,0}^{(h,E_g,4)}$	Gh(9, Eg, 4, 0)	$S_8$
96	$E_g$	<b>Eg</b>	4	1	$\mathbb{G}_{9,1}^{(h,E_g,4)}$	Gh(9, Eg, 4, 1)	$C_8$
97	$E_g$	<b>Eg</b>	5	0	$\mathbb{G}_{9,0}^{(h,E_g,5)}$	Gh(9, Eg, 5, 0)	$-S_4$
98	$E_g$	<b>Eg</b>	5	1	$\mathbb{G}_{9,1}^{(h,E_g,5)}$	Gh(9, Eg, 5, 1)	$C_4$
99	$E_g$	<b>Eg</b>	6	0	$\mathbb{G}_{9,0}^{(h,E_g,6)}$	Gh(9, Eg, 6, 0)	$S_2$
100	$E_g$	<b>Eg</b>	6	1	$\mathbb{G}_{9,1}^{(h,E_g,6)}$	Gh(9, Eg, 6, 1)	$C_2$

表 11 rank 10

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
101	$A_{1u}$	<b>A1u</b>	1	—	$\mathbb{G}_{10}^{(h,A_{1u},1)}$	Gh(10, A1u, 1, )	$C_0$
102	$A_{1u}$	<b>A1u</b>	2	—	$\mathbb{G}_{10}^{(h,A_{1u},2)}$	Gh(10, A1u, 2, )	$C_6$
103	$A_{1u}$	<b>A1u</b>	3	—	$\mathbb{G}_{10}^{(h,A_{1u},3)}$	Gh(10, A1u, 3, )	$C_9$
104	$A_{1u}$	<b>A1u</b>	4	—	$\mathbb{G}_{10}^{(h,A_{1u},4)}$	Gh(10, A1u, 4, )	$C_3$
105	$A_{2u}$	<b>A2u</b>	1	—	$\mathbb{G}_{10}^{(h,A_{2u},1)}$	Gh(10, A2u, 1, )	$S_6$
106	$A_{2u}$	<b>A2u</b>	2	—	$\mathbb{G}_{10}^{(h,A_{2u},2)}$	Gh(10, A2u, 2, )	$S_9$
107	$A_{2u}$	<b>A2u</b>	3	—	$\mathbb{G}_{10}^{(h,A_{2u},3)}$	Gh(10, A2u, 3, )	$S_3$
108	$E_u$	<b>Eu</b>	1	0	$\mathbb{G}_{10,0}^{(h,E_u,1)}$	Gh(10, Eu, 1, 0)	$-S_7$
109	$E_u$	<b>Eu</b>	1	1	$\mathbb{G}_{10,1}^{(h,E_u,1)}$	Gh(10, Eu, 1, 1)	$C_7$
110	$E_u$	<b>Eu</b>	2	0	$\mathbb{G}_{10,0}^{(h,E_u,2)}$	Gh(10, Eu, 2, 0)	$S_5$
111	$E_u$	<b>Eu</b>	2	1	$\mathbb{G}_{10,1}^{(h,E_u,2)}$	Gh(10, Eu, 2, 1)	$C_5$
112	$E_u$	<b>Eu</b>	3	0	$\mathbb{G}_{10,0}^{(h,E_u,3)}$	Gh(10, Eu, 3, 0)	$-S_1$
113	$E_u$	<b>Eu</b>	3	1	$\mathbb{G}_{10,1}^{(h,E_u,3)}$	Gh(10, Eu, 3, 1)	$C_1$
114	$E_u$	<b>Eu</b>	4	0	$\mathbb{G}_{10,0}^{(h,E_u,4)}$	Gh(10, Eu, 4, 0)	$-S_{10}$
115	$E_u$	<b>Eu</b>	4	1	$\mathbb{G}_{10,1}^{(h,E_u,4)}$	Gh(10, Eu, 4, 1)	$C_{10}$
116	$E_u$	<b>Eu</b>	5	0	$\mathbb{G}_{10,0}^{(h,E_u,5)}$	Gh(10, Eu, 5, 0)	$S_8$
117	$E_u$	<b>Eu</b>	5	1	$\mathbb{G}_{10,1}^{(h,E_u,5)}$	Gh(10, Eu, 5, 1)	$C_8$
118	$E_u$	<b>Eu</b>	6	0	$\mathbb{G}_{10,0}^{(h,E_u,6)}$	Gh(10, Eu, 6, 0)	$-S_4$
119	$E_u$	<b>Eu</b>	6	1	$\mathbb{G}_{10,1}^{(h,E_u,6)}$	Gh(10, Eu, 6, 1)	$C_4$
120	$E_u$	<b>Eu</b>	7	0	$\mathbb{G}_{10,0}^{(h,E_u,7)}$	Gh(10, Eu, 7, 0)	$S_2$
121	$E_u$	<b>Eu</b>	7	1	$\mathbb{G}_{10,1}^{(h,E_u,7)}$	Gh(10, Eu, 7, 1)	$C_2$

表 12 rank 11

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
122	$A_{1g}$	A1g	1	—	$\mathbb{G}_{11}^{(h,A_{1g},1)}$	Gh(11, A1g, 1, )	$S_6$
123	$A_{1g}$	A1g	2	—	$\mathbb{G}_{11}^{(h,A_{1g},2)}$	Gh(11, A1g, 2, )	$S_9$
124	$A_{1g}$	A1g	3	—	$\mathbb{G}_{11}^{(h,A_{1g},3)}$	Gh(11, A1g, 3, )	$S_3$
125	$A_{2g}$	A2g	1	—	$\mathbb{G}_{11}^{(h,A_{2g},1)}$	Gh(11, A2g, 1, )	$C_0$
126	$A_{2g}$	A2g	2	—	$\mathbb{G}_{11}^{(h,A_{2g},2)}$	Gh(11, A2g, 2, )	$C_6$
127	$A_{2g}$	A2g	3	—	$\mathbb{G}_{11}^{(h,A_{2g},3)}$	Gh(11, A2g, 3, )	$C_9$
128	$A_{2g}$	A2g	4	—	$\mathbb{G}_{11}^{(h,A_{2g},4)}$	Gh(11, A2g, 4, )	$C_3$
129	$E_g$	Eg	1	0	$\mathbb{G}_{11,0}^{(h,E_g,1)}$	Gh(11, Eg, 1, 0)	$S_{11}$
130	$E_g$	Eg	1	1	$\mathbb{G}_{11,1}^{(h,E_g,1)}$	Gh(11, Eg, 1, 1)	$C_{11}$
131	$E_g$	Eg	2	0	$\mathbb{G}_{11,0}^{(h,E_g,2)}$	Gh(11, Eg, 2, 0)	$-S_7$
132	$E_g$	Eg	2	1	$\mathbb{G}_{11,1}^{(h,E_g,2)}$	Gh(11, Eg, 2, 1)	$C_7$
133	$E_g$	Eg	3	0	$\mathbb{G}_{11,0}^{(h,E_g,3)}$	Gh(11, Eg, 3, 0)	$S_5$
134	$E_g$	Eg	3	1	$\mathbb{G}_{11,1}^{(h,E_g,3)}$	Gh(11, Eg, 3, 1)	$C_5$
135	$E_g$	Eg	4	0	$\mathbb{G}_{11,0}^{(h,E_g,4)}$	Gh(11, Eg, 4, 0)	$-S_1$
136	$E_g$	Eg	4	1	$\mathbb{G}_{11,1}^{(h,E_g,4)}$	Gh(11, Eg, 4, 1)	$C_1$
137	$E_g$	Eg	5	0	$\mathbb{G}_{11,0}^{(h,E_g,5)}$	Gh(11, Eg, 5, 0)	$-S_{10}$
138	$E_g$	Eg	5	1	$\mathbb{G}_{11,1}^{(h,E_g,5)}$	Gh(11, Eg, 5, 1)	$C_{10}$
139	$E_g$	Eg	6	0	$\mathbb{G}_{11,0}^{(h,E_g,6)}$	Gh(11, Eg, 6, 0)	$S_8$
140	$E_g$	Eg	6	1	$\mathbb{G}_{11,1}^{(h,E_g,6)}$	Gh(11, Eg, 6, 1)	$C_8$
141	$E_g$	Eg	7	0	$\mathbb{G}_{11,0}^{(h,E_g,7)}$	Gh(11, Eg, 7, 0)	$-S_4$
142	$E_g$	Eg	7	1	$\mathbb{G}_{11,1}^{(h,E_g,7)}$	Gh(11, Eg, 7, 1)	$C_4$
143	$E_g$	Eg	8	0	$\mathbb{G}_{11,0}^{(h,E_g,8)}$	Gh(11, Eg, 8, 0)	$S_2$
144	$E_g$	Eg	8	1	$\mathbb{G}_{11,1}^{(h,E_g,8)}$	Gh(11, Eg, 8, 1)	$C_2$