No. 26 D_{3h} -6m2 (-6m2 setting) [hexagonal] (polar)

表 1 rank 0

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
1	A_1'	$\mathtt{A1}'$	_	_	$\mathbb{Q}_0^{(h,A_1')}$	$\mathtt{Qh}(\mathtt{0},\mathtt{A1}',,)$	C_0

表 2 rank 1

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
2	$A_2^{\prime\prime}$	A2"	-	-	$\mathbb{Q}_1^{(h,A_2^{\prime\prime})}$	$\mathtt{Qh}(\mathtt{1},\mathtt{A2''},,)$	C_0
3	E'	E'	-	0	$\mathbb{Q}_{1,0}^{(h,E')}$	$\mathtt{Qh}(1,E',,0)$	C_1
4	E'	E'	_	1	$\mathbb{Q}_{1,1}^{(h,E')}$	$\mathtt{Qh}(1,E',,1)$	S_1

表 3 rank 2

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
5	A_1'	A1'	_	_	$\mathbb{Q}_2^{(h,A_1')}$	$\mathtt{Qh}(\mathtt{2},\mathtt{A1'},,)$	C_0
6	E'	E'	_	0	$\mathbb{Q}_{2,0}^{(h,E')}$	$\mathtt{Qh}(2,E',,0)$	$-S_2$
7	E'	E'	_	1	$\mathbb{Q}_{2,1}^{(h,E')}$	$\mathtt{Qh}(2,E',,1)$	$-C_2$
8	$E^{\prime\prime}$	$E^{\prime\prime}$	_	0	$\mathbb{Q}_{2,0}^{(h,E^{\prime\prime})}$	$\mathtt{Qh}(\mathtt{2},\mathtt{E}'',,\mathtt{0})$	C_1
9	$E^{\prime\prime}$	Ε"	_	1	$\mathbb{Q}_{2,1}^{(h,E^{\prime\prime})}$	$\mathtt{Qh}(2,\mathtt{E}'',,1)$	S_1

表 4 rank 3

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
10	A_1'	$\mathtt{A1}'$	_	_	$\mathbb{Q}_3^{(h,A_1')}$	$\mathtt{Qh}(\mathtt{3},\mathtt{A1'},,)$	S_3
11	A_2'	$\mathtt{A2}'$	_	_	$\mathbb{Q}_3^{(h,A_2')}$	$\mathtt{Qh}(\mathtt{3},\mathtt{A2'},,)$	C_3
12	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	_	_	$\mathbb{Q}_3^{(h,A_2^{\prime\prime})}$	$\mathtt{Qh}(\mathtt{3},\mathtt{A2''},,)$	C_0
13	E'	E'	_	0	$\mathbb{Q}_{3,0}^{(h,E')}$	$\mathtt{Qh}(3,E',,0)$	C_1
14	E'	E'	_	1	$\mathbb{Q}_{3,1}^{(h,E')}$	$\mathtt{Qh}(3,E',,1)$	S_1
15	$E^{\prime\prime}$	$E^{\prime\prime}$	_	0	$\mathbb{Q}_{3,0}^{(h,E^{\prime\prime})}$	$\mathtt{Qh}(3,\mathtt{E}^{\prime\prime},,\mathtt{0})$	$-S_2$
16	$E^{\prime\prime}$	Ε"	_	1	$\mathbb{Q}_{3,1}^{(h,E^{\prime\prime})}$	$\mathtt{Qh}(3,\mathtt{E}'',,1)$	$-C_2$

表 5 rank 4

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
17	A_1'	A1'	_	_	$\mathbb{Q}_4^{(h,A_1')}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A1'},,)$	C_0
18	A_1''	$\mathtt{A1}^{\prime\prime}$	_	_	$\mathbb{Q}_4^{(h,A_1^{\prime\prime})}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A1''},,)$	C_3
19	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	_	_	$\mathbb{Q}_4^{(h,A_2^{\prime\prime})}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A2''},,)$	S_3
20	E'	E'	1	0	$\mathbb{Q}_{4,0}^{(h,E',1)}$	$\mathtt{Qh}(4,\mathtt{E}',\mathtt{1},\mathtt{0})$	S_4
21	E'	E'	1	1	$\mathbb{Q}_{4,1}^{(h,E',1)}$	$\mathtt{Qh}(4,\mathtt{E}',1,1)$	$-C_4$
22	E'	E'	2	0	$\mathbb{Q}_{4,0}^{(h,E',2)}$	$\mathtt{Qh}(4,\mathtt{E}',2,0)$	$-S_2$
23	E'	E'	2	1	$\mathbb{Q}_{4,1}^{(h,E',2)}$	$\mathtt{Qh}(4,\mathtt{E}',2,1)$	$-C_2$
24	$E^{\prime\prime}$	\mathtt{E}''	_	0	$\mathbb{Q}_{4,0}^{(h,E^{\prime\prime})}$	$\mathtt{Qh}(4,\mathtt{E}^{\prime\prime},,\mathtt{0})$	C_1
25	E''	Ε"		1	$\mathbb{Q}_{4,1}^{(h,E^{\prime\prime})}$	$\mathtt{Qh}(4,\mathtt{E}'',,1)$	S_1

表 6 rank 5

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
26	A_1'	A1'	_	_	$\mathbb{Q}_5^{(h,A_1')}$	$\mathtt{Qh}(\mathtt{5},\mathtt{Al'},,)$	S_3
27	A_2'	$\mathtt{A2}'$	_	_	$\mathbb{Q}_5^{(h,A_2')}$	$\mathtt{Qh}(5,\mathtt{A2'},,)$	C_3
28	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	_	_	$\mathbb{Q}_5^{(h,A_2^{\prime\prime})}$	$\mathtt{Qh}(5,\mathtt{A2''},,)$	C_0
29	E'	E'	1	0	$\mathbb{Q}_{5,0}^{(h,E',1)}$	$\mathtt{Qh}(5,\mathtt{E}',1,0)$	C_5
30	E'	E'	1	1	$\mathbb{Q}_{5,1}^{(h,E',1)}$	$\mathtt{Qh}(5,\mathtt{E}',\mathtt{1},\mathtt{1})$	$-S_5$
31	E'	E'	2	0	$\mathbb{Q}_{5,0}^{(h,E',2)}$	$\mathtt{Qh}(5,\mathtt{E}',2,0)$	C_1
32	E'	E'	2	1	$\mathbb{Q}_{5,1}^{(h,E',2)}$	$\mathtt{Qh}(5,\mathtt{E}',2,1)$	S_1
33	E''	$E^{\prime\prime}$	1	0	$\mathbb{Q}_{5,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(5,\mathtt{E}'',1,0)$	S_4
34	E''	$E^{\prime\prime}$	1	1	$\mathbb{Q}_{5,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(5,\mathtt{E}'',1,1)$	$-C_4$
35	E''	E''	2	0	$\mathbb{Q}_{5,0}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(5,\mathtt{E}'',2,0)$	$-S_2$
36	E''	Ε"	2	1	$\mathbb{Q}_{5,1}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(5,\mathtt{E}'',2,1)$	$-C_2$

表 7 rank 6

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
37	A_1'	A1'	1	_	$\mathbb{Q}_6^{(h,A_1',1)}$	$\mathtt{Qh}(6,\mathtt{A1}',\mathtt{1},)$	C_0
38	A_1'	$\mathtt{A1}'$	2	_	$\mathbb{Q}_6^{(h,A_1',2)}$	$\mathtt{Qh}(6,\mathtt{A1}',2,)$	C_6
39	A_1''	$\mathtt{A1}^{\prime\prime}$	_	_	$\mathbb{Q}_6^{(h,A_1'')}$	$\mathtt{Qh}(6,\mathtt{A1''},,)$	C_3
40	A_2'	$\mathtt{A2}'$	_	_	$\mathbb{Q}_6^{(h,A_2')}$	$\mathtt{Qh}(6,\mathtt{A2'},,)$	S_6
41	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	_	_	$\mathbb{Q}_6^{(h,A_2^{\prime\prime})}$	$\mathtt{Qh}(6,\mathtt{A2''},,)$	S_3
42	E'	E'	1	0	$\mathbb{Q}_{6,0}^{(h,E',1)}$	$\mathtt{Qh}(6,\mathtt{E}',1,0)$	S_4
43	E'	E'	1	1	$\mathbb{Q}_{6,1}^{(h,E',1)}$	$\mathtt{Qh}(6,\mathtt{E}',\mathtt{1},\mathtt{1})$	$-C_4$
44	E'	E'	2	0	$\mathbb{Q}_{6,0}^{(h,E',2)}$	$\mathtt{Qh}(6,\mathtt{E}',2,0)$	$-S_2$
45	E'	E'	2	1	$\mathbb{Q}_{6,1}^{(h,E',2)}$	$\mathtt{Qh}(6,\mathtt{E}',2,1)$	$-C_2$
46	$E^{\prime\prime}$	$E^{\prime\prime}$	1	0	$\mathbb{Q}_{6,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(6,\mathtt{E}'',\mathtt{1},\mathtt{0})$	C_5
47	$E^{\prime\prime}$	$E^{\prime\prime}$	1	1	$\mathbb{Q}_{6,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(6,\mathtt{E}'',\mathtt{1},\mathtt{1})$	$-S_5$
48	$E^{\prime\prime}$	E''	2	0	$\mathbb{Q}_{6,0}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(6,\mathtt{E}'',2,0)$	C_1
49	$E^{\prime\prime}$	E''	2	1	$\mathbb{Q}_{6,1}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(6,\mathtt{E}'',2,1)$	S_1

表 8 rank 7

				表 8	rank 7		
No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
50	A_1'	$\mathtt{A1}'$	_	_	$\mathbb{Q}_7^{(h,A_1')}$	$\mathtt{Qh}(7,\mathtt{A1}',,)$	S_3
51	A_1''	$\mathtt{A1}^{\prime\prime}$	_	_	$\mathbb{Q}_7^{(h,A_1'')}$	$\mathtt{Qh}(7,\mathtt{A1''},,)$	S_6
52	A_2'	$\mathtt{A2}'$	_	_	$\mathbb{Q}_7^{(h,A_2')}$	$\mathtt{Qh}(7,\mathtt{A2'},,)$	C_3
53	$A_2^{\prime\prime}$	A2"	1	_	$\mathbb{Q}_7^{(h,A_2'',1)}$	$\mathtt{Qh}(7,\mathtt{A2''},1,)$	C_0
54	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	2	_		$\mathtt{Qh}(7,\mathtt{A2''},2,)$	
55	E'	E'	1	0	$\mathbb{Q}_{7,0}^{(h,E',1)}$	$\mathtt{Qh}(7,\mathtt{E}',\mathtt{1},\mathtt{0})$	C_7
56	E'	E'	1	1	$\mathbb{Q}_{7,1}^{(h,E',1)}$	$\mathtt{Qh}(7,\mathtt{E}',\mathtt{1},\mathtt{1})$	S_7
57	E'	E'	2	0	$\mathbb{Q}_{7,0}^{(h,E',2)}$	$\mathtt{Qh}(7,\mathtt{E}',2,0)$	C_5
58	E'	E'	2	1	$\mathbb{Q}_{7,1}^{(h,E',2)}$	$\mathtt{Qh}(7,\mathtt{E}',2,1)$	$-S_5$
59	E'	E'	3	0	$\mathbb{Q}_{7,0}^{(h,E',3)}$	$\mathtt{Qh}(7,\mathtt{E}',3,0)$	C_1
60	E'	E'	3	1	$\mathbb{Q}_{7,1}^{(h,E',3)}$	$\mathtt{Qh}(7,\mathtt{E}',3,1)$	S_1
61	$E^{\prime\prime}$	$E^{\prime\prime}$	1	0	$\mathbb{Q}_{7,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(7,\mathtt{E}'',1,0)$	S_4
62	$E^{\prime\prime}$	$E^{\prime\prime}$	1	1	$\mathbb{Q}_{7,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(7,\mathtt{E}'',1,1)$	$-C_4$
63	$E^{\prime\prime}$	E''	2	0	- / -	$\mathtt{Qh}(7,\mathtt{E}'',2,0)$	$-S_2$
64	E''	Ε''	2	1	$\mathbb{Q}_{7,1}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(7,\mathtt{E}'',2,1)$	$-C_2$

表 9 rank 8

				表 9	rank 8		
No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
65	A_1'	A1'	1	_	$\mathbb{Q}_8^{(h,A_1',1)}$	Qh(8, A1', 1,)	C_0
66	A_1'	$\mathtt{A1}'$	2	_	$\mathbb{Q}_8^{(h,A_1',2)}$	$\mathtt{Qh}(8,\mathtt{A1}',2,)$	C_6
67	A_1''	$\mathtt{A1}^{\prime\prime}$	_	_	$\mathbb{Q}_8^{(h,A_1'')}$	$\mathtt{Qh}(8,\mathtt{A1''},,)$	C_3
68	A_2'	$\mathtt{A2}'$	_	_	$\mathbb{Q}_8^{(h,A_2')}$	$\mathtt{Qh}(8,\mathtt{A2'},,)$	S_6
69	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	_	_	$\mathbb{Q}_8^{(h,A_2^{\prime\prime})}$	$\mathtt{Qh}(8,\mathtt{A2''},,)$	S_3
70	E'	E'	1	0	$\mathbb{Q}_{8,0}^{(h,E',1)}$	$\mathtt{Qh}(8,E',1,0)$	$-S_8$
71	E'	E'	1	1	$\mathbb{Q}_{8,1}^{(h,E',1)}$	$\mathtt{Qh}(8,E',1,1)$	$-C_8$
72	E'	E'	2	0	$\mathbb{Q}_{8,0}^{(h,E',2)}$	$\mathtt{Qh}(8,\mathtt{E}',2,0)$	S_4
73	E'	E'	2	1	$\mathbb{Q}_{8,1}^{(h,E',2)}$	$\mathtt{Qh}(8,E',2,1)$	$-C_4$
74	E'	E'	3	0	$\mathbb{Q}_{8,0}^{(h,E',3)}$	$\mathtt{Qh}(8,\mathtt{E}',3,0)$	$-S_2$
75	E'	E'	3	1	$\mathbb{Q}_{8,1}^{(h,E',3)}$	$\mathtt{Qh}(8,\mathtt{E}',3,1)$	$-C_2$
76	E''	$E^{\prime\prime}$	1	0	$\mathbb{Q}_{8,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(8,\mathtt{E}'',\mathtt{1},\mathtt{0})$	C_7
77	$E^{\prime\prime}$	$E^{\prime\prime}$	1	1	$\mathbb{Q}_{8,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(8,\mathtt{E}'',1,1)$	S_7
78	$E^{\prime\prime}$	$E^{\prime\prime}$	2	0	$\mathbb{Q}_{8,0}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(8,\mathtt{E}'',2,0)$	C_5
79	$E^{\prime\prime}$	E''	2	1	$\mathbb{Q}_{8,1}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(8,\mathtt{E}'',2,1)$	$-S_5$
80	$E^{\prime\prime}$	E''	3	0	$\mathbb{Q}_{8,0}^{(h,E^{\prime\prime},3)}$	$\mathtt{Qh}(8,\mathtt{E}'',3,0)$	C_1
81	E''	E''	3	1	$\mathbb{Q}_{8,1}^{(h,E^{\prime\prime},3)}$	$\mathtt{Qh}(8,\mathtt{E}'',3,1)$	S_1

表 10 rank 9

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
82	A_1'	A1'	1	_	$\mathbb{Q}_9^{(h,A_1',1)}$	$\mathtt{Qh}(9,\mathtt{A1}',\mathtt{1},)$	S_9
83	A_1'	$\mathtt{A1}'$	2	_	$\mathbb{Q}_9^{(h,A_1',2)}$	$\mathtt{Qh}(9,\mathtt{A1}',2,)$	S_3
84	A_1''	$\mathtt{A1}^{\prime\prime}$	-	_	$\mathbb{Q}_9^{(h,A_1'')}$	$\mathtt{Qh}(9,\mathtt{A1''},,)$	S_6
85	A_2'	$\mathtt{A2}'$	1	_	$\mathbb{Q}_9^{(h,A_2',1)}$	$\mathtt{Qh}(9,\mathtt{A2'},1,)$	C_9
86	A_2'	$\mathtt{A2'}$	2	_	$\mathbb{Q}_9^{(h,A_2',2)}$	$\mathtt{Qh}(9,\mathtt{A2'},2,)$	C_3
87	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	1	-	$\mathbb{Q}_9^{(h,A_2'',1)}$	$\mathtt{Qh}(9,\mathtt{A2''},1,)$	C_0
88	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	2	_	$\mathbb{Q}_9^{(h,A_2'',2)}$	$\mathtt{Qh}(9,\mathtt{A2''},2,)$	C_6
89	E'	E'	1	0	$\mathbb{Q}_{9,0}^{(h,E',1)}$	$\mathtt{Qh}(9,\mathtt{E}',1,0)$	C_7
90	E'	E'	1	1	$\mathbb{Q}_{9,1}^{(h,E',1)}$	$\mathtt{Qh}(9,\mathtt{E}',1,1)$	S_7
91	E'	E'	2	0	$\mathbb{Q}_{9,0}^{(h,E',2)}$	$\mathtt{Qh}(9,\mathtt{E}',2,0)$	C_5
92	E'	E'	2	1	$\mathbb{Q}_{9,1}^{(h,E',2)}$	$\mathtt{Qh}(9,\mathtt{E}',2,1)$	$-S_5$
93	E'	E'	3	0	$\mathbb{Q}_{9,0}^{(h,E',3)}$	$\mathtt{Qh}(9,\mathtt{E}',3,0)$	C_1
94	E'	E'	3	1	$\mathbb{Q}_{9,1}^{(h,E',3)}$	$\mathtt{Qh}(9,\mathtt{E}',3,1)$	S_1
95	$E^{\prime\prime}$	Ε''	1	0	$\mathbb{Q}_{9,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(9,\mathtt{E}'',1,0)$	$-S_8$
96	$E^{\prime\prime}$	Ε''	1	1	$\mathbb{Q}_{9,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(9,\mathtt{E}'',1,1)$	$-C_8$
97	$E^{\prime\prime}$	Ε''	2	0	$\mathbb{Q}_{9,0}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(9,\mathtt{E}'',2,0)$	S_4
98	$E^{\prime\prime}$	Ε''	2	1	$\mathbb{Q}_{9,1}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(9,\mathtt{E}'',2,1)$	$-C_4$
99	$E^{\prime\prime}$	Ε''	3	0	$\mathbb{Q}_{9,0}^{(h,E^{\prime\prime},3)}$	$\mathtt{Qh}(9,\mathtt{E}'',3,0)$	$-S_2$
100	E''	Ε"	3	1	$\mathbb{Q}_{9,1}^{(h,E^{\prime\prime},3)}$	$\mathtt{Qh}(9,\mathtt{E}'',3,1)$	$-C_2$

表 11 rank 10

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
101	A_1'	A1'	1	_	$\mathbb{Q}_{10}^{(h,A_{1}',1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A1}',\mathtt{1},)$	C_0
102	A_1'	$\mathtt{A1}'$	2	_	$\mathbb{Q}_{10}^{(h,A_1',2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A1}',\mathtt{2},)$	C_6
103	A_1''	$\mathtt{A1}^{\prime\prime}$	1	_	$\mathbb{Q}_{10}^{(h,A_1^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A1''},\mathtt{1},)$	C_9
104	A_1''	$\mathtt{A1}^{\prime\prime}$	2	_	$\mathbb{Q}_{10}^{(h,A_1^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A1''},\mathtt{2},)$	C_3
105	A_2'	$\mathtt{A2}'$	-	_	$\mathbb{Q}_{10}^{(h,A_2')}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A2'},,)$	S_6
106	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	1	_	$\mathbb{Q}_{10}^{(h,A_{2}^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A2''},\mathtt{1},)$	S_9
107	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	2	_	$\mathbb{Q}_{10}^{(h,A_{2}^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A2''},\mathtt{2},)$	S_3
108	E'	E'	1	0	$\mathbb{Q}_{10,0}^{(h,E',1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{1},\mathtt{0})$	S_{10}
109	E'	E'	1	1	$\mathbb{Q}_{10,1}^{(h,E',1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{1},\mathtt{1})$	$-C_{10}$
110	E'	E'	2	0	$\mathbb{Q}_{10,0}^{(h,E',2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{2},\mathtt{0})$	$-S_8$
111	E'	E'	2	1	$\mathbb{Q}_{10,1}^{(h,E',2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{2},\mathtt{1})$	$-C_8$
112	E'	E'	3	0	$\mathbb{Q}_{10,0}^{(h,E',3)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{3},\mathtt{0})$	S_4
113	E'	E'	3	1	$\mathbb{Q}_{10,1}^{(h,E',3)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{3},\mathtt{1})$	$-C_4$
114	E'	E'	4	0	$\mathbb{Q}_{10,0}^{(h,E',4)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{4},\mathtt{0})$	$-S_2$
115	E'	E'	4	1	$\mathbb{Q}_{10,1}^{(h,E',4)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}',\mathtt{4},\mathtt{1})$	$-C_2$
116	E''	$E^{\prime\prime}$	1	0	$\mathbb{Q}_{10,0}^{(h,E'',1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}'',\mathtt{1},\mathtt{0})$	C_7
117	E''	$E^{\prime\prime}$	1	1	$\mathbb{Q}_{10,1}^{(h,E'',1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}'',\mathtt{1},\mathtt{1})$	S_7
118	E''	\mathtt{E}''	2	0	$\mathbb{Q}_{10,0}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}'',\mathtt{2},\mathtt{0})$	C_5
119	$E^{\prime\prime}$	\mathtt{E}''	2	1	$\mathbb{Q}_{10,1}^{(h,E'',2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}'',\mathtt{2},\mathtt{1})$	$-S_5$
120	$E^{\prime\prime}$	\mathtt{E}''	3	0	$\mathbb{Q}_{10,0}^{(h,E'',3)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{E}'',\mathtt{3},\mathtt{0})$	C_1
121	E''	E"	3	1	$\mathbb{Q}_{10,1}^{(h,E^{\prime\prime},3)}$	Qh(10, E'', 3, 1)	S_1

表 12 rank 11

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
122	A_1'	A1'	1	-	$\mathbb{Q}_{11}^{(h,A_{1}',1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A1}',\mathtt{1},)$	S_9
123	A_1'	$\mathtt{A1}'$	2	-	$\mathbb{Q}_{11}^{(h,A_1',2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A1'},\mathtt{2},)$	S_3
124	A_1''	$\mathtt{A1}^{\prime\prime}$	_	_	$\mathbb{Q}_{11}^{(h,A_1^{\prime\prime})}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A1''},,)$	S_6
125	A_2'	$\mathtt{A2}'$	1	_	$\mathbb{Q}_{11}^{(h,A_2',1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A2'},\mathtt{1},)$	C_9
126	A_2'	$\mathtt{A2}'$	2	_	$\mathbb{Q}_{11}^{(h,A_2',2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A2}',\mathtt{2},)$	C_3
127	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	1	_	$\mathbb{Q}_{11}^{(h,A_2^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A2''},\mathtt{1},)$	C_0
128	$A_2^{\prime\prime}$	$\mathtt{A2}^{\prime\prime}$	2	_	$\mathbb{Q}_{11}^{(h,A_2^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A2''},\mathtt{2},)$	C_6
129	E'	E'	1	0	$\mathbb{Q}_{11,0}^{(h,E',1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{1},\mathtt{0})$	C_{11}
130	E'	E'	1	1	$\mathbb{Q}_{11,1}^{(h,E',1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{1},\mathtt{1})$	$-S_{11}$
131	E'	E'	2	0	$\mathbb{Q}_{11,0}^{(h,E',2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{2},\mathtt{0})$	C_7
132	E'	E'	2	1	$\mathbb{Q}_{11,1}^{(h,E',2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{2},\mathtt{1})$	S_7
133	E'	E'	3	0	$\mathbb{Q}_{11,0}^{(h,E',3)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{3},\mathtt{0})$	C_5
134	E'	E'	3	1	$\mathbb{Q}_{11,1}^{(h,E',3)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{3},\mathtt{1})$	$-S_5$
135	E'	E'	4	0	$\mathbb{Q}_{11,0}^{(h,E',4)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{4},\mathtt{0})$	C_1
136	E'	E'	4	1	$\mathbb{Q}_{11,1}^{(h,E',4)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}',\mathtt{4},\mathtt{1})$	S_1
137	E''	\mathtt{E}''	1	0	$\mathbb{Q}_{11,0}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}'',\mathtt{1},\mathtt{0})$	S_{10}
138	E''	Ε"	1	1	$\mathbb{Q}_{11,1}^{(h,E^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}'',\mathtt{1},\mathtt{1})$	$-C_{10}$
139	E''	$E^{\prime\prime}$	2	0	$\mathbb{Q}_{11,0}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(11,\mathtt{E}'',2,0)$	$-S_8$
140	E''	Ε"	2	1	$\mathbb{Q}_{11,1}^{(h,E^{\prime\prime},2)}$	$\mathtt{Qh}(11,\mathtt{E}'',2,1)$	$-C_8$
141	$E^{\prime\prime}$	$E^{\prime\prime}$	3	0	$\mathbb{Q}_{11,0}^{(h,E^{\prime\prime},3)}$	$\mathtt{Qh}(11,\mathtt{E}'',3,0)$	S_4
142	$E^{\prime\prime}$	Ε"	3	1	$\mathbb{Q}_{11,1}^{(h,E^{\prime\prime},3)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}'',\mathtt{3},\mathtt{1})$	$-C_4$
143	E''	Ε"	4	0	$\mathbb{Q}_{11,0}^{(h,E^{\prime\prime},4)}$	$\mathtt{Qh}(11,\mathtt{E}'',4,0)$	$-S_2$
144	E''	Ε"	4	1	$\mathbb{Q}_{11,1}^{(h,E^{\prime\prime},4)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{E}'',\mathtt{4},\mathtt{1})$	$-C_2$