No. 4 C_s m (b-axis setting) [monoclinic] (polar)

表 1 rank 0

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

表 2 rank 1

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

表 3 rank 2

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
5	A'	\mathtt{A}'	1	-	$\mathbb{Q}_2^{(h,A',1)}$	$\mathtt{Qh}(2,\mathtt{A}',1,)$	C_0
6	A'	\mathtt{A}'	2	_	$\mathbb{Q}_2^{(h,A',2)}$	$\mathtt{Qh}(2,\mathtt{A}',2,)$	C_2
7	A'	\mathtt{A}'	3	_	$\mathbb{Q}_2^{(h,A',3)}$	$\mathtt{Qh}(2,\mathtt{A}',3,)$	C_1
8	A''	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_2^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{2},\mathtt{A}^{\prime\prime},\mathtt{1},)$	S_1
9	A''	A''	2	-	$\mathbb{Q}_2^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{2},\mathtt{A}^{\prime\prime},\mathtt{2},)$	S_2

表 4 rank 3

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
10	A'	A'	1	_	$\mathbb{Q}_3^{(h,A',1)}$	$\mathtt{Qh}(3,\mathtt{A}',\mathtt{1},)$	$-\frac{\sqrt{6}C_1}{4} + \frac{\sqrt{10}C_3}{4}$
11	A'	\mathtt{A}'	2	_	$\mathbb{Q}_3^{(h,A',2)}$	$\mathtt{Qh}(3,\mathtt{A}',2,)$	C_0
12	A'	\mathtt{A}'	3	-	$\mathbb{Q}_3^{(h,A',3)}$	$\mathtt{Qh}(3, \mathtt{A}', 3,)$	$-\frac{\sqrt{10}C_1}{4} - \frac{\sqrt{6}C_3}{4}$
13	A'	\mathtt{A}'	4	_	$\mathbb{Q}_3^{(h,A',4)}$	$\mathtt{Qh}(3, \mathtt{A}', 4,)$	C_2
14	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_3^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(3,\mathtt{A}'',1,)$	S_2
15	A''	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_3^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(3,\mathtt{A}'',2,)$	$-\frac{\sqrt{6}S_1}{4} - \frac{\sqrt{10}S_3}{4}$
16	A''	Α''	3		$\mathbb{Q}_3^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(\mathtt{3},\mathtt{A}'',\mathtt{3},)$	$\frac{\sqrt{10}S_1}{4} - \frac{\sqrt{6}S_3}{4}$

表 5 rank 4

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
17	A'	\mathtt{A}'	1	_	$\mathbb{Q}_4^{(h,A',1)}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A}',\mathtt{1},)$	$\frac{\sqrt{21}C_0}{6} + \frac{\sqrt{15}C_4}{6}$
18	A'	\mathtt{A}'	2	-	$\mathbb{Q}_4^{(h,A',2)}$	$\mathtt{Qh}(4,\mathtt{A}',2,)$	$\frac{\sqrt{15}C_0}{6} - \frac{\sqrt{21}C_4}{6}$
19	A'	\mathtt{A}'	3	_	$\mathbb{Q}_4^{(h,A',3)}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A}',\mathtt{3},)$	$-C_2$
20	A'	\mathtt{A}'	4	_	$\mathbb{Q}_4^{(h,A',4)}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A}',\mathtt{4},)$	$\frac{\sqrt{14}C_1}{4} - \frac{\sqrt{2}C_3}{4}$
21	A'	\mathtt{A}'	5	-	$\mathbb{Q}_4^{(h,A',5)}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A}',\mathtt{5},)$	$-\frac{\sqrt{2}C_1}{4} - \frac{\sqrt{14}C_3}{4}$
22	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_4^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(4,\mathtt{A}'',\mathtt{1},)$	$-\frac{\sqrt{14}S_1}{4} - \frac{\sqrt{2}S_3}{4}$
23	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_4^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(4,\mathtt{A}'',\mathtt{2},)$	S_4
24	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_4^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(4,\mathtt{A}'',3,)$	$-\frac{\sqrt{2}S_1}{4} + \frac{\sqrt{14}S_3}{4}$
25	A''	Α''	4		$\mathbb{Q}_4^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(\mathtt{4},\mathtt{A}'',\mathtt{4},)$	S_2

表 6 rank 5

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
26	A'	A'	1	_	$\mathbb{Q}_{5}^{(h,A',1)}$	$\mathtt{Qh}(\mathtt{5},\mathtt{A}',\mathtt{1},)$	$\frac{\sqrt{15}C_1}{8} - \frac{\sqrt{70}C_3}{16} + \frac{3\sqrt{14}C_5}{16}$
27	A'	\mathtt{A}'	2	_	$\mathbb{Q}_{5}^{(h,A',2)}$	$\mathtt{Qh}(5,\mathtt{A}',2,)$	C_0
28	A'	\mathtt{A}'	3	_	$\mathbb{Q}_{5}^{(h,A',3)}$	$\mathtt{Qh}(\mathtt{5},\mathtt{A}',\mathtt{3},)$	$\frac{\sqrt{21}C_1}{8} + \frac{9\sqrt{2}C_3}{16} + \frac{\sqrt{10}C_5}{16}$
29	A'	\mathtt{A}'	4	_	$\mathbb{Q}_{5}^{(h,A',4)}$	$\mathtt{Qh}(\mathtt{5},\mathtt{A}',\mathtt{4},)$	C_4
30	A'	\mathtt{A}'	5	_	$\mathbb{Q}_{5}^{(h,A',5)}$	$\mathtt{Qh}(\mathtt{5},\mathtt{A}',\mathtt{5},)$	$\frac{\sqrt{7}C_1}{4} - \frac{\sqrt{6}C_3}{8} - \frac{\sqrt{30}C_5}{8}$
31	A'	\mathtt{A}'	6	_	$\mathbb{Q}_{5}^{(h,A',6)}$	$\mathtt{Qh}(5,\mathtt{A}',6,)$	C_2
32	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_{5}^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(5,\mathtt{A}'',1,)$	S_4
33	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_{5}^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(5,\mathtt{A}'',2,)$	$-S_2$
34	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_{5}^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(5,\mathtt{A}'',3,)$	$\frac{\sqrt{15}S_1}{8} + \frac{\sqrt{70}S_3}{16} + \frac{3\sqrt{14}S_5}{16}$
35	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{Q}_{5}^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(5,\mathtt{A}'',4,)$	$\frac{\sqrt{21}S_1}{8} - \frac{9\sqrt{2}S_3}{16} + \frac{\sqrt{10}S_5}{16}$
36	$A^{\prime\prime}$	Α''	5	_	$\mathbb{Q}_{5}^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(5,\mathtt{A}'',5,)$	$-\frac{\sqrt{7}S_1}{4} - \frac{\sqrt{6}S_3}{8} + \frac{\sqrt{30}S_5}{8}$

表 7 rank 6

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
37	A'	A'	1	_	$\mathbb{Q}_6^{(h,A',1)}$	$\mathtt{Qh}(6,\mathtt{A}',\mathtt{1},)$	$\frac{\sqrt{2}C_0}{4} - \frac{\sqrt{14}C_4}{4}$
38	A'	\mathtt{A}'	2	_	$\mathbb{Q}_6^{(h,A',2)}$	$\mathtt{Qh}(6,\mathtt{A}',\mathtt{2},)$	$\frac{\sqrt{11}C_2}{4} - \frac{\sqrt{5}C_6}{4}$
39	A'	\mathtt{A}'	3	_	$\mathbb{Q}_6^{(h,A',3)}$	$\mathtt{Qh}(6,\mathtt{A}',\mathtt{3},)$	$\frac{\sqrt{14}C_0}{4} + \frac{\sqrt{2}C_4}{4}$
40	A'	\mathtt{A}'	4	_	$\mathbb{Q}_6^{(h,A',4)}$	$\mathtt{Qh}(6,\mathtt{A}',4,)$	$\frac{\sqrt{5}C_2}{4} + \frac{\sqrt{11}C_6}{4}$
41	A'	\mathtt{A}'	5	-	$\mathbb{Q}_6^{(h,A',5)}$	$\mathtt{Qh}(6,\mathtt{A}',\mathtt{5},)$	$-\frac{\sqrt{3}C_1}{4} - \frac{\sqrt{30}C_3}{8} + \frac{\sqrt{22}C_5}{8}$
42	A'	\mathtt{A}'	6	-	$\mathbb{Q}_6^{(h,A',6)}$	$\mathtt{Qh}(6,\mathtt{A}',6,)$	$\frac{3\sqrt{22}C_1}{16} - \frac{\sqrt{55}C_3}{16} + \frac{\sqrt{3}C_5}{16}$
43	A'	\mathtt{A}'	7	_	$\mathbb{Q}_6^{(h,A',7)}$	$\mathtt{Qh}(6,\mathtt{A}',7,)$	$\frac{\sqrt{10}C_1}{16} + \frac{9C_3}{16} + \frac{\sqrt{165}C_5}{16}$
44	A''	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_{6}^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(6,\mathtt{A}^{\prime\prime},\mathtt{1},)$	$\frac{\sqrt{3}S_1}{4} - \frac{\sqrt{30}S_3}{8} - \frac{\sqrt{22}S_5}{8}$
45	A''	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_{6}^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(6,\mathtt{A}^{\prime\prime},2,)$	S_4
46	A''	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_{6}^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(6,\mathtt{A}^{\prime\prime},\mathtt{3},)$	$\frac{3\sqrt{22}S_1}{16} + \frac{\sqrt{55}S_3}{16} + \frac{\sqrt{3}S_5}{16}$
47	A''	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{Q}_6^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(6,\mathtt{A}^{\prime\prime},4,)$	S_6
48	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	5	_	$\mathbb{Q}_6^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(6,\mathtt{A}^{\prime\prime},\mathtt{5},)$	$\frac{\sqrt{10}S_1}{16} - \frac{9S_3}{16} + \frac{\sqrt{165}S_5}{16}$
49	A''	$\mathtt{A}^{\prime\prime}$	6	_	$\mathbb{Q}_{6}^{(h,A^{\prime\prime},6)}$	$\mathtt{Qh}(6,\mathtt{A}^{\prime\prime},6,)$	S_2

表 8 rank 7

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
50	A'	A'	1	_	$\mathbb{Q}_7^{(h,A',1)}$	$\mathtt{Qh}(7,\mathtt{A}',\mathtt{1},)$	$-\frac{5\sqrt{7}C_1}{32} + \frac{3\sqrt{21}C_3}{32} - \frac{\sqrt{231}C_5}{32} + \frac{\sqrt{429}C_7}{32}$
51	A'	\mathtt{A}'	2	_	$\mathbb{Q}_7^{(h,A',2)}$	$\mathtt{Qh}(7,\mathtt{A}',\mathtt{2},)$	C_0
52	A'	\mathtt{A}'	3	_	$\mathbb{Q}_7^{(h,A',3)}$	$\mathtt{Qh}(7,\mathtt{A}',\mathtt{3},)$	$-\frac{3\sqrt{33}C_1}{32} - \frac{\sqrt{11}C_3}{32} + \frac{25C_5}{32} + \frac{\sqrt{91}C_7}{32}$
53	A'	\mathtt{A}'	4	_	$\mathbb{Q}_7^{(h,A',4)}$	$\mathtt{Qh}(7,\mathtt{A}',\mathtt{4},)$	C_4
54	A'	\mathtt{A}'	5	_	$\mathbb{Q}_7^{(h,A',5)}$	$\mathtt{Qh}(7,\mathtt{A}',\mathtt{5},)$	$-\frac{\sqrt{858}C_1}{64} - \frac{3\sqrt{286}C_3}{64} - \frac{5\sqrt{26}C_5}{64} - \frac{\sqrt{14}C_7}{64}$
55	A'	\mathtt{A}'	6	_	$\mathbb{Q}_7^{(h,A',6)}$	$\mathtt{Qh}(7,\mathtt{A}',6,)$	C_6
56	A'	\mathtt{A}'	7	_	$\mathbb{Q}_7^{(h,A',7)}$	$\mathtt{Qh}(7,\mathtt{A}',7,)$	$-\frac{15\sqrt{6}C_1}{64} + \frac{19\sqrt{2}C_3}{64} - \frac{\sqrt{22}C_5}{64} - \frac{\sqrt{2002}C_7}{64}$
57	A'	\mathtt{A}'	8	-	$\mathbb{Q}_7^{(h,A',8)}$	$\mathtt{Qh}(7,\mathtt{A}',\mathtt{8},)$	C_2
58	A''	$\mathtt{A}^{\prime\prime}$	1	-	$\mathbb{Q}_7^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},1,)$	$\frac{\sqrt{78}S_2}{12} + \frac{\sqrt{66}S_6}{12}$
59	A''	$\mathtt{A}^{\prime\prime}$	2	-	$\mathbb{Q}_7^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},2,)$	S_4
60	A''	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_7^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},3,)$	$\frac{\sqrt{66}S_2}{12} - \frac{\sqrt{78}S_6}{12}$
61	A''	$\mathtt{A}^{\prime\prime}$	4	-	$\mathbb{Q}_7^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},4,)$	$-\frac{5\sqrt{7}S_1}{32} - \frac{3\sqrt{21}S_3}{32} - \frac{\sqrt{231}S_5}{32} - \frac{\sqrt{429}S_7}{32}$
62	A''	$\mathtt{A}^{\prime\prime}$	5	-	$\mathbb{Q}_7^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},5,)$	$-\frac{3\sqrt{33}S_1}{32} + \frac{\sqrt{11}S_3}{32} + \frac{25S_5}{32} - \frac{\sqrt{91}S_7}{32}$
63	A''	$\mathtt{A}^{\prime\prime}$	6	_	$\mathbb{Q}_7^{(h,A^{\prime\prime},6)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},6,)$	$\frac{\sqrt{858}S_1}{64} - \frac{3\sqrt{286}S_3}{64} + \frac{5\sqrt{26}S_5}{64} - \frac{\sqrt{14}S_7}{64}$
64	A''	Α"	7	_	$\mathbb{Q}_7^{(h,A^{\prime\prime},7)}$	$\mathtt{Qh}(7,\mathtt{A}^{\prime\prime},7,)$	$\frac{15\sqrt{6}S_1}{64} + \frac{19\sqrt{2}S_3}{64} + \frac{\sqrt{22}S_5}{64} - \frac{\sqrt{2002}S_7}{64}$

表 9 rank 8

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
65	A'	\mathtt{A}'	1	-	$\mathbb{Q}_8^{(h,A',1)}$	$\mathtt{Qh}(8,\mathtt{A}',\mathtt{1},)$	$\frac{\sqrt{33}C_0}{8} + \frac{\sqrt{21}C_4}{12} + \frac{\sqrt{195}C_8}{24}$
66	A'	\mathtt{A}'	2	-	$\mathbb{Q}_8^{(h,A',2)}$	$\mathtt{Qh}(8,\mathtt{A}',\mathtt{2},)$	$-rac{\sqrt{286}C_0}{32}+rac{\sqrt{182}C_4}{16}+rac{\sqrt{10}C_8}{32}$
67	A'	\mathtt{A}'	3	_	$\mathbb{Q}_8^{(h,A',3)}$	$\mathtt{Qh}(8,\mathtt{A}',\mathtt{3},)$	C_6
68	A'	\mathtt{A}'	4	-	$\mathbb{Q}_8^{(h,A',4)}$	$\mathtt{Qh}(8,\mathtt{A}',4,)$	$-\frac{\sqrt{210}C_0}{32} - \frac{\sqrt{330}C_4}{48} + \frac{\sqrt{6006}C_8}{96}$
69	A'	\mathtt{A}'	5	-	$\mathbb{Q}_8^{(h,A',5)}$	$\mathtt{Qh}(8,\mathtt{A}',\mathtt{5},)$	C_2
70	A'	\mathtt{A}'	6	-	$\mathbb{Q}_8^{(h,A',6)}$	$\mathtt{Qh}(8,\mathtt{A}',6,)$	$\frac{\sqrt{715}C_1}{32} - \frac{\sqrt{273}C_3}{32} + \frac{\sqrt{35}C_5}{32} - \frac{C_7}{32}$
71	A'	\mathtt{A}'	7	-	$\mathbb{Q}_8^{(h,A',7)}$	$\mathtt{Qh}(8,\mathtt{A}',7,)$	$\frac{\sqrt{77}C_1}{32} + \frac{5\sqrt{15}C_3}{32} + \frac{3\sqrt{13}C_5}{32} - \frac{\sqrt{455}C_7}{32}$
72	A'	\mathtt{A}'	8	_	$\mathbb{Q}_8^{(h,A',8)}$	$\mathtt{Qh}(8,\mathtt{A}',8,)$	$-\frac{\sqrt{858}C_1}{64} - \frac{\sqrt{910}C_3}{64} + \frac{7\sqrt{42}C_5}{64} - \frac{3\sqrt{30}C_7}{64}$
73	A'	\mathtt{A}'	9	_	$\mathbb{Q}_8^{(h,A',9)}$	$\mathtt{Qh}(8,\mathtt{A}',9,)$	$-\frac{\sqrt{70}C_1}{64} - \frac{3\sqrt{66}C_3}{64} - \frac{\sqrt{1430}C_5}{64} - \frac{\sqrt{2002}C_7}{64}$
74	A''	$\mathtt{A}^{\prime\prime}$	1	-	$\mathbb{Q}_8^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(8,\mathtt{A}'',\mathtt{1},)$	$-\frac{\sqrt{715}S_1}{32} - \frac{\sqrt{273}S_3}{32} - \frac{\sqrt{35}S_5}{32} - \frac{S_7}{32}$
75	A''	$\mathtt{A}^{\prime\prime}$	2	-	$\mathbb{Q}_8^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(8,\mathtt{A}'',2,)$	S_8
76	A''	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_8^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(8,\mathtt{A}'',\mathtt{3},)$	$-\frac{\sqrt{77}S_1}{32} + \frac{5\sqrt{15}S_3}{32} - \frac{3\sqrt{13}S_5}{32} - \frac{\sqrt{455}S_7}{32}$
77	A''	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{Q}_8^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(\mathtt{8},\mathtt{A}'',\mathtt{4},)$	S_4
78	A''	$\mathtt{A}^{\prime\prime}$	5	_	$\mathbb{Q}_8^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(8,\mathtt{A}'',\mathtt{5},)$	$-\frac{\sqrt{858}S_1}{64} + \frac{\sqrt{910}S_3}{64} + \frac{7\sqrt{42}S_5}{64} + \frac{3\sqrt{30}S_7}{64}$
79	A''	$\mathtt{A}^{\prime\prime}$	6	_	$\mathbb{Q}_8^{(h,A^{\prime\prime},6)}$	$\mathtt{Qh}(8,\mathtt{A}'',6,)$	S_6
80	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	7	_	$\mathbb{Q}_8^{(h,A^{\prime\prime},7)}$	$\mathtt{Qh}(8,\mathtt{A}'',7,)$	$-\frac{\sqrt{70}S_1}{64} + \frac{3\sqrt{66}S_3}{64} - \frac{\sqrt{1430}S_5}{64} + \frac{\sqrt{2002}S_7}{64}$
81	A''	Α''	8		$\mathbb{Q}_8^{(h,A^{\prime\prime},8)}$	$\mathtt{Qh}(8,\mathtt{A}'',8,)$	S_2

表 10 rank 9

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
82	A'	\mathtt{A}'	1	-	$\mathbb{Q}_9^{(h,A',1)}$	$\mathtt{Qh}(9,\mathtt{A}',1,)$	$\frac{21\sqrt{5}C_1}{128} - \frac{\sqrt{2310}C_3}{128} + \frac{3\sqrt{286}C_5}{128} - \frac{3\sqrt{1430}C_7}{256} + \frac{\sqrt{24310}C_9}{256}$
83	A'	\mathtt{A}'	2	_	$\mathbb{Q}_9^{(h,A',2)}$	$\mathtt{Qh}(9,\mathtt{A}',2,)$	C_0
84	A'	\mathtt{A}'	3	_	$\mathbb{Q}_9^{(h,A',3)}$	$\mathtt{Qh}(9,\mathtt{A}',3,)$	$\frac{\sqrt{2431}C_1}{128} + \frac{\sqrt{9282}C_3}{128} + \frac{5\sqrt{170}C_5}{128} + \frac{7\sqrt{34}C_7}{256} + \frac{3\sqrt{2}C_9}{256}$
85	A'	\mathtt{A}'	4	-	$\mathbb{Q}_9^{(h,A',4)}$	$\mathtt{Qh}(9,\mathtt{A}',\mathtt{4},)$	C_8
86	A'	\mathtt{A}'	5	_	$\mathbb{Q}_9^{(h,A',5)}$	$\mathtt{Qh}(9,\mathtt{A}',\mathtt{5},)$	$\frac{\sqrt{1001}C_1}{64} - \frac{\sqrt{78}C_3}{64} - \frac{3\sqrt{70}C_5}{64} + \frac{23\sqrt{14}C_7}{128} + \frac{3\sqrt{238}C_9}{128}$
87	A'	\mathtt{A}'	6	_	$\mathbb{Q}_9^{(h,A',6)}$	$\mathtt{Qh}(9,\mathtt{A}',6,)$	C_4
88	A'	\mathtt{A}'	7	_	$\mathbb{Q}_9^{(h,A',7)}$	$\mathtt{Qh}(9,\mathtt{A}',7,)$	$\frac{\sqrt{858}C_1}{64} + \frac{\sqrt{91}C_3}{32} - \frac{5\sqrt{15}C_5}{32} - \frac{21\sqrt{3}C_7}{64} - \frac{\sqrt{51}C_9}{64}$
89	A'	\mathtt{A}'	8	_	$\mathbb{Q}_9^{(h,A',8)}$	$\mathtt{Qh}(9,\mathtt{A}',8,)$	C_6
90	A'	\mathtt{A}'	9	-	$\mathbb{Q}_9^{(h,A',9)}$	$\mathtt{Qh}(9,\mathtt{A}',9,)$	$\frac{7\sqrt{22}C_1}{64} - \frac{3\sqrt{21}C_3}{32} + \frac{\sqrt{65}C_5}{32} + \frac{\sqrt{13}C_7}{64} - \frac{3\sqrt{221}C_9}{64}$
91	A'	\mathtt{A}'	10	_	$\mathbb{Q}_9^{(h,A',10)}$	$\mathtt{Qh}(9,\mathtt{A}',\mathtt{10},)$	C_2
92	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(9,\mathtt{A}'',\mathtt{1},)$	$\frac{\sqrt{102}S_4}{12} - \frac{\sqrt{42}S_8}{12}$
93	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(9,\mathtt{A}'',2,)$	$rac{\sqrt{3}S_2}{4} - rac{\sqrt{13}S_6}{4}$
94	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(9,\mathtt{A}'',\mathtt{3},)$	$\frac{\sqrt{42}S_4}{12} + \frac{\sqrt{102}S_8}{12}$
95	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(9,\mathtt{A}'',4,)$	$-rac{\sqrt{13}S_2}{4} - rac{\sqrt{3}S_6}{4}$
96	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	5	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(9,\mathtt{A}'',\mathtt{5},)$	$\frac{21\sqrt{5}S_1}{128} + \frac{\sqrt{2310}S_3}{128} + \frac{3\sqrt{286}S_5}{128} + \frac{3\sqrt{1430}S_7}{256} + \frac{\sqrt{24310}S_9}{256}$
97	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	6	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},6)}$	$\mathtt{Qh}(9,\mathtt{A}'',6,)$	$\frac{\sqrt{2431}S_1}{128} - \frac{\sqrt{9282}S_3}{128} + \frac{5\sqrt{170}S_5}{128} - \frac{7\sqrt{34}S_7}{256} + \frac{3\sqrt{2}S_9}{256}$
98	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	7	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},7)}$	$\mathtt{Qh}(9,\mathtt{A}'',7,)$	$\frac{\sqrt{1001}S_1}{64} + \frac{\sqrt{78}S_3}{64} - \frac{3\sqrt{70}S_5}{64} - \frac{23\sqrt{14}S_7}{128} + \frac{3\sqrt{238}S_9}{128}$
99	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	8	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},8)}$	$\mathtt{Qh}(9,\mathtt{A}'',8,)$	$-\frac{\sqrt{858}S_1}{64} + \frac{\sqrt{91}S_3}{32} + \frac{5\sqrt{15}S_5}{32} - \frac{21\sqrt{3}S_7}{64} + \frac{\sqrt{51}S_9}{64}$
100	$A^{\prime\prime}$	Α''	9	_	$\mathbb{Q}_9^{(h,A^{\prime\prime},9)}$	$\mathtt{Qh}(9,\mathtt{A}'',9,)$	$-\frac{7\sqrt{22}S_1}{64} - \frac{3\sqrt{21}S_3}{32} - \frac{\sqrt{65}S_5}{32} + \frac{\sqrt{13}S_7}{64} + \frac{3\sqrt{221}S_9}{64}$

表 11 rank 10

No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
101	A'	\mathtt{A}'	1	_	$\mathbb{Q}_{10}^{(h,A',1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{1},)$	$\frac{\sqrt{390}C_0}{48} - \frac{\sqrt{22}C_4}{8} - \frac{\sqrt{1122}C_8}{48}$
102	A'	\mathtt{A}'	2	_	$\mathbb{Q}_{10}^{(h,A',2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{2},)$	$-\frac{\sqrt{85}C_{10}}{16} + \frac{\sqrt{1482}C_2}{48} + \frac{\sqrt{57}C_6}{48}$
103	A'	\mathtt{A}'	3	_	$\mathbb{Q}_{10}^{(h,A',3)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{3},)$	$\frac{11\sqrt{420189}C_0}{8988} + \frac{\sqrt{827645}C_4}{1498} - \frac{\sqrt{146055}C_8}{8988}$
104	A'	\mathtt{A}'	4	-	$\mathbb{Q}_{10}^{(h,A',4)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{4},)$	$\frac{\sqrt{370006}C_{10}}{749} + \frac{\sqrt{190995}C_2}{749}$
105	A'	\mathtt{A}'	5	_	$\mathbb{Q}_{10}^{(h,A',5)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{5},)$	$\frac{3\sqrt{3213210}C_0}{11984} - \frac{83\sqrt{1498}C_4}{5992} + \frac{31\sqrt{76398}C_8}{11984}$
106	A'	\mathtt{A}'	6	_	$\mathbb{Q}_{10}^{(h,A',6)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',6,)$	$\frac{\sqrt{1209635}C_{10}}{11984} - \frac{19\sqrt{58422}C_2}{35952} + \frac{\sqrt{2247}C_6}{48}$
107	A'	\mathtt{A}'	7	_	$\mathbb{Q}_{10}^{(h,A',7)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{7},)$	$-\frac{\sqrt{221}C_1}{32} - \frac{\sqrt{102}C_3}{32} + \frac{\sqrt{510}C_5}{32} - \frac{11\sqrt{6}C_7}{64} + \frac{\sqrt{38}C_9}{64}$
108	A'	\mathtt{A}'	8	_	$\mathbb{Q}_{10}^{(h,A',8)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{8},)$	$-\frac{\sqrt{39}C_1}{32} - \frac{11\sqrt{2}C_3}{32} - \frac{5\sqrt{10}C_5}{32} - \frac{\sqrt{34}C_7}{64} + \frac{\sqrt{1938}C_9}{64}$
109	A'	\mathtt{A}'	9	_	$\mathbb{Q}_{10}^{(h,A',9)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{9},)$	$\frac{\sqrt{41990}C_1}{256} - \frac{\sqrt{4845}C_3}{128} + \frac{\sqrt{969}C_5}{128} - \frac{\sqrt{285}C_7}{256} + \frac{\sqrt{5}C_9}{256}$
110	A'	\mathtt{A}'	10	_	$\mathbb{Q}_{10}^{(h,A',10)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{10},)$	$\frac{9\sqrt{78}C_1}{256} + \frac{69C_3}{128} - \frac{\sqrt{5}C_5}{128} - \frac{43\sqrt{17}C_7}{256} + \frac{3\sqrt{969}C_9}{256}$
111	A'	\mathtt{A}'	11	_	$\mathbb{Q}_{10}^{(h,A',11)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}',\mathtt{11},)$	$\frac{7\sqrt{3}C_1}{128} + \frac{7\sqrt{26}C_3}{128} + \frac{5\sqrt{130}C_5}{128} + \frac{7\sqrt{442}C_7}{256} + \frac{\sqrt{25194}C_9}{256}$
112	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{1},)$	$\frac{\sqrt{221}S_1}{32} - \frac{\sqrt{102}S_3}{32} - \frac{\sqrt{510}S_5}{32} - \frac{11\sqrt{6}S_7}{64} - \frac{\sqrt{38}S_9}{64}$
113	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{2},)$	S_8
114	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	3	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{3},)$	$\frac{\sqrt{39}S_1}{32} - \frac{11\sqrt{2}S_3}{32} + \frac{5\sqrt{10}S_5}{32} - \frac{\sqrt{34}S_7}{64} - \frac{\sqrt{1938}S_9}{64}$
115	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{4},)$	S_4
116	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	5	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{5},)$	$\frac{\sqrt{41990}S_1}{256} + \frac{\sqrt{4845}S_3}{128} + \frac{\sqrt{969}S_5}{128} + \frac{\sqrt{285}S_7}{256} + \frac{\sqrt{5}S_9}{256}$
117	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	6	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},6)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',6,)$	S_{10}
118	A''	$\mathtt{A}^{\prime\prime}$	7	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},7)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{7},)$	$\frac{9\sqrt{78}S_1}{256} - \frac{69S_3}{128} - \frac{\sqrt{5}S_5}{128} + \frac{43\sqrt{17}S_7}{256} + \frac{3\sqrt{969}S_9}{256}$
119	A''	$\mathtt{A}^{\prime\prime}$	8	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},8)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{8},)$	S_6
120	A''	$\mathtt{A}^{\prime\prime}$	9	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},9)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{9},)$	$\frac{7\sqrt{3}S_1}{128} - \frac{7\sqrt{26}S_3}{128} + \frac{5\sqrt{130}S_5}{128} - \frac{7\sqrt{442}S_7}{256} + \frac{\sqrt{25194}S_9}{256}$
121	A''	$\mathtt{A}^{\prime\prime}$	10	_	$\mathbb{Q}_{10}^{(h,A^{\prime\prime},10)}$	$\mathtt{Qh}(\mathtt{10},\mathtt{A}'',\mathtt{10},)$	S_2

表 12 rank 11

						13, 12	rank 11
No.	irrep.	(tag)	mul.	comp.	harmonics	(tag)	definition
122	A'	A'	1	_	$\mathbb{Q}_{11}^{(h,A',1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{1},)$	$-\frac{21\sqrt{66}C_1}{512} + \frac{\sqrt{88179}C_{11}}{512} + \frac{\sqrt{30030}C_3}{512} - \frac{15\sqrt{143}C_5}{512} + \frac{\sqrt{36465}C_7}{512} - \frac{\sqrt{46189}C_9}{512}$
123	A'	\mathtt{A}'	2	_	$\mathbb{Q}_{11}^{(h,A',2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{2},)$	C_0
124	A'	\mathtt{A}'	3	_	$\mathbb{Q}_{11}^{(h,A',3)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{3},)$	$-\frac{\sqrt{41990}C_1}{512} + \frac{\sqrt{385}C_{11}}{512} - \frac{3\sqrt{4522}C_3}{512} + \frac{3\sqrt{4845}C_5}{512} + \frac{77\sqrt{19}C_7}{512} + \frac{39\sqrt{15}C_9}{512}$
125	A'	\mathtt{A}'	4	_	$\mathbb{Q}_{11}^{(h,A',4)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{4},)$	C_8
126	A'	\mathtt{A}'	5	_	$\mathbb{Q}_{11}^{(h,A',5)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{5},)$	$-\frac{5\sqrt{546}C_1}{256} + \frac{\sqrt{10659}C_{11}}{256} + \frac{11\sqrt{30}C_3}{256} + \frac{13\sqrt{7}C_5}{256} - \frac{3\sqrt{1785}C_7}{256} + \frac{3\sqrt{2261}C_9}{256}$
127	A'	\mathtt{A}'	6	_	$\mathbb{Q}_{11}^{(h,A',6)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',6,)$	C_4
128	A'	\mathtt{A}'	7	_	$\mathbb{Q}_{11}^{(h,A',7)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',7,)$	$-\frac{\sqrt{29393}C_1}{512}-\frac{\sqrt{22}C_{11}}{1024}-\frac{9\sqrt{1615}C_3}{512}-\frac{5\sqrt{13566}C_5}{1024}-\frac{7\sqrt{1330}C_7}{1024}-\frac{9\sqrt{42}C_9}{1024}$
129	A'	\mathtt{A}'	8	_	$\mathbb{Q}_{11}^{(h,A',8)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{8},)$	C_{10}
130	A'	\mathtt{A}'	9	_	$\mathbb{Q}_{11}^{(h,A',9)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{9},)$	$-\frac{15\sqrt{221}C_1}{512}-\frac{3\sqrt{2926}C_{11}}{1024}-\frac{\sqrt{595}C_3}{512}+\frac{53\sqrt{102}C_5}{1024}-\frac{105\sqrt{10}C_7}{1024}-\frac{61\sqrt{114}C_9}{1024}$
131	A'	\mathtt{A}'	10	_	$\mathbb{Q}_{11}^{(h,A',10)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{10},)$	C_6
132	A'	\mathtt{A}'	11	_	$\mathbb{Q}_{11}^{(h,A',11)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{11},)$	$-\frac{21\sqrt{130}C_1}{512} - \frac{\sqrt{124355}C_{11}}{512} + \frac{57\sqrt{14}C_3}{512} - \frac{41\sqrt{15}C_5}{512} + \frac{17\sqrt{17}C_7}{512} + \frac{\sqrt{4845}C_9}{512}$
133	A'	\mathtt{A}'	12	_	$\mathbb{Q}_{11}^{(h,A',12)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}',\mathtt{12},)$	C_2
134	A''	$\mathtt{A}^{\prime\prime}$	1	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},1)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{1},)$	$\frac{\sqrt{798}S_{10}}{48} + \frac{\sqrt{255}S_2}{24} + \frac{3\sqrt{6}S_6}{16}$
135	A''	$\mathtt{A}^{\prime\prime}$	2	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},2)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{2},)$	S_8
136	A''	$\mathtt{A}^{\prime\prime}$	3	=	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},3)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{3},)$	$-\frac{\sqrt{210}S_{10}}{96} + \frac{\sqrt{969}S_2}{48} - \frac{\sqrt{570}S_6}{32}$
137	A''	$\mathtt{A}^{\prime\prime}$	4	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},4)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{4},)$	S_4
138	A''	$\mathtt{A}^{\prime\prime}$	5	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},5)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{5},)$	$-\frac{\sqrt{646}S_{10}}{32} + \frac{\sqrt{35}S_2}{16} + \frac{\sqrt{238}S_6}{32}$
139	A''	$\mathtt{A}^{\prime\prime}$	6	=	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},6)}$	$\mathtt{Qh}(11,\mathtt{A}'',6,)$	$-\frac{21\sqrt{66}S_1}{512}-\frac{\sqrt{88179}S_{11}}{512}-\frac{\sqrt{30030}S_3}{512}-\frac{15\sqrt{143}S_5}{512}-\frac{\sqrt{36465}S_7}{512}-\frac{\sqrt{46189}S_9}{512}$
140	A''	$\mathtt{A}^{\prime\prime}$	7	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},7)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',7,)$	$-\frac{\sqrt{41990}S_1}{512} - \frac{\sqrt{385}S_{11}}{512} + \frac{3\sqrt{4522}S_3}{512} + \frac{3\sqrt{4845}S_5}{512} - \frac{77\sqrt{19}S_7}{512} + \frac{39\sqrt{15}S_9}{512}$
141	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	8	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},8)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{8},)$	$-\frac{5\sqrt{546}S_1}{256} - \frac{\sqrt{10659}S_{11}}{256} - \frac{11\sqrt{30}S_3}{256} + \frac{13\sqrt{7}S_5}{256} + \frac{3\sqrt{1785}S_7}{256} + \frac{3\sqrt{2261}S_9}{256}$
142	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	9	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},9)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{9},)$	$\tfrac{\sqrt{29393}S_1}{512} - \tfrac{\sqrt{22}S_{11}}{1024} - \tfrac{9\sqrt{1615}S_3}{512} + \tfrac{5\sqrt{13566}S_5}{1024} - \tfrac{7\sqrt{1330}S_7}{1024} + \tfrac{9\sqrt{42}S_9}{1024}$
143	$A^{\prime\prime}$	$\mathtt{A}^{\prime\prime}$	10	_	$\mathbb{Q}_{11}^{(h,A^{\prime\prime},10)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{10},)$	$\tfrac{15\sqrt{221}S_1}{512} - \tfrac{3\sqrt{2926}S_{11}}{1024} - \tfrac{\sqrt{595}S_3}{512} - \tfrac{53\sqrt{102}S_5}{1024} - \tfrac{105\sqrt{10}S_7}{1024} + \tfrac{61\sqrt{114}S_9}{1024}$
144	A''	Α''	11		$\mathbb{Q}_{11}^{(h,A^{\prime\prime},11)}$	$\mathtt{Qh}(\mathtt{11},\mathtt{A}'',\mathtt{11},)$	$\frac{21\sqrt{130}S_1}{512} - \frac{\sqrt{124355}S_{11}}{512} + \frac{57\sqrt{14}S_3}{512} + \frac{41\sqrt{15}S_5}{512} + \frac{17\sqrt{17}S_7}{512} - \frac{\sqrt{4845}S_9}{512}$