

No. 20 $D_{3d} - 1 - 3m1$ (-3m1 setting) [trigonal] (polar)

表 1 rank 0

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|--------------------|-----------------------|------------|
| 1 | A_{1g} | A1g | — | — | $Q_0^{(h,A_{1g})}$ | Qh(0, A1g, ,) | C_0 |

表 2 rank 1

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|---------------------|-----------------------|------------|
| 2 | A_{2u} | A2u | — | — | $Q_1^{(h,A_{2u})}$ | Qh(1, A2u, ,) | C_0 |
| 3 | E_u | Eu | — | 0 | $Q_{1,0}^{(h,E_u)}$ | Qh(1, Eu, , 0) | C_1 |
| 4 | E_u | Eu | — | 1 | $Q_{1,1}^{(h,E_u)}$ | Qh(1, Eu, , 1) | S_1 |

表 3 rank 2

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|-----------------------|------------------------|------------|
| 5 | A_{1g} | A1g | — | — | $Q_2^{(h,A_{1g})}$ | Qh(2, A1g, ,) | C_0 |
| 6 | E_g | Eg | 1 | 0 | $Q_{2,0}^{(h,E_g,1)}$ | Qh(2, Eg, 1, 0) | C_1 |
| 7 | E_g | Eg | 1 | 1 | $Q_{2,1}^{(h,E_g,1)}$ | Qh(2, Eg, 1, 1) | S_1 |
| 8 | E_g | Eg | 2 | 0 | $Q_{2,0}^{(h,E_g,2)}$ | Qh(2, Eg, 2, 0) | $-S_2$ |
| 9 | E_g | Eg | 2 | 1 | $Q_{2,1}^{(h,E_g,2)}$ | Qh(2, Eg, 2, 1) | $-C_2$ |

表 4 rank 3

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|-----------------------|------------------------|------------|
| 10 | A_{1u} | A1u | — | — | $Q_3^{(h,A_{1u})}$ | Qh(3, A1u, ,) | C_3 |
| 11 | A_{2u} | A2u | 1 | — | $Q_3^{(h,A_{2u},1)}$ | Qh(3, A2u, 1,) | C_0 |
| 12 | A_{2u} | A2u | 2 | — | $Q_3^{(h,A_{2u},2)}$ | Qh(3, A2u, 2,) | S_3 |
| 13 | E_u | Eu | 1 | 0 | $Q_{3,0}^{(h,E_u,1)}$ | Qh(3, Eu, 1, 0) | C_1 |
| 14 | E_u | Eu | 1 | 1 | $Q_{3,1}^{(h,E_u,1)}$ | Qh(3, Eu, 1, 1) | S_1 |
| 15 | E_u | Eu | 2 | 0 | $Q_{3,0}^{(h,E_u,2)}$ | Qh(3, Eu, 2, 0) | $-S_2$ |
| 16 | E_u | Eu | 2 | 1 | $Q_{3,1}^{(h,E_u,2)}$ | Qh(3, Eu, 2, 1) | $-C_2$ |

表 5 rank 4

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|-----------------------|------------------------|------------|
| 17 | A_{1g} | A1g | 1 | — | $Q_4^{(h,A_{1g},1)}$ | Qh(4, A1g, 1,) | C_0 |
| 18 | A_{1g} | A1g | 2 | — | $Q_4^{(h,A_{1g},2)}$ | Qh(4, A1g, 2,) | S_3 |
| 19 | A_{2g} | A2g | — | — | $Q_4^{(h,A_{2g})}$ | Qh(4, A2g, ,) | C_3 |
| 20 | E_g | Eg | 1 | 0 | $Q_{4,0}^{(h,E_g,1)}$ | Qh(4, Eg, 1, 0) | C_1 |
| 21 | E_g | Eg | 1 | 1 | $Q_{4,1}^{(h,E_g,1)}$ | Qh(4, Eg, 1, 1) | S_1 |
| 22 | E_g | Eg | 2 | 0 | $Q_{4,0}^{(h,E_g,2)}$ | Qh(4, Eg, 2, 0) | S_4 |
| 23 | E_g | Eg | 2 | 1 | $Q_{4,1}^{(h,E_g,2)}$ | Qh(4, Eg, 2, 1) | $-C_4$ |
| 24 | E_g | Eg | 3 | 0 | $Q_{4,0}^{(h,E_g,3)}$ | Qh(4, Eg, 3, 0) | $-S_2$ |
| 25 | E_g | Eg | 3 | 1 | $Q_{4,1}^{(h,E_g,3)}$ | Qh(4, Eg, 3, 1) | $-C_2$ |

表 6 rank 5

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|--------------------------------|---------------------------------|------------|
| 26 | A_{1u} | A1u | — | — | $\mathbb{Q}_5^{(h,A_{1u})}$ | $\text{Qh}(5, \text{A1u},)$ | C_3 |
| 27 | A_{2u} | A2u | 1 | — | $\mathbb{Q}_5^{(h,A_{2u},1)}$ | $\text{Qh}(5, \text{A2u}, 1,)$ | C_0 |
| 28 | A_{2u} | A2u | 2 | — | $\mathbb{Q}_5^{(h,A_{2u},2)}$ | $\text{Qh}(5, \text{A2u}, 2,)$ | S_3 |
| 29 | E_u | Eu | 1 | 0 | $\mathbb{Q}_{5,0}^{(h,E_u,1)}$ | $\text{Qh}(5, \text{Eu}, 1, 0)$ | C_5 |
| 30 | E_u | Eu | 1 | 1 | $\mathbb{Q}_{5,1}^{(h,E_u,1)}$ | $\text{Qh}(5, \text{Eu}, 1, 1)$ | $-S_5$ |
| 31 | E_u | Eu | 2 | 0 | $\mathbb{Q}_{5,0}^{(h,E_u,2)}$ | $\text{Qh}(5, \text{Eu}, 2, 0)$ | C_1 |
| 32 | E_u | Eu | 2 | 1 | $\mathbb{Q}_{5,1}^{(h,E_u,2)}$ | $\text{Qh}(5, \text{Eu}, 2, 1)$ | S_1 |
| 33 | E_u | Eu | 3 | 0 | $\mathbb{Q}_{5,0}^{(h,E_u,3)}$ | $\text{Qh}(5, \text{Eu}, 3, 0)$ | S_4 |
| 34 | E_u | Eu | 3 | 1 | $\mathbb{Q}_{5,1}^{(h,E_u,3)}$ | $\text{Qh}(5, \text{Eu}, 3, 1)$ | $-C_4$ |
| 35 | E_u | Eu | 4 | 0 | $\mathbb{Q}_{5,0}^{(h,E_u,4)}$ | $\text{Qh}(5, \text{Eu}, 4, 0)$ | $-S_2$ |
| 36 | E_u | Eu | 4 | 1 | $\mathbb{Q}_{5,1}^{(h,E_u,4)}$ | $\text{Qh}(5, \text{Eu}, 4, 1)$ | $-C_2$ |

表 7 rank 6

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|--------------------------------|---------------------------------|------------|
| 37 | A_{1g} | A1g | 1 | — | $\mathbb{Q}_6^{(h,A_{1g},1)}$ | $\text{Qh}(6, \text{A1g}, 1,)$ | C_0 |
| 38 | A_{1g} | A1g | 2 | — | $\mathbb{Q}_6^{(h,A_{1g},2)}$ | $\text{Qh}(6, \text{A1g}, 2,)$ | C_6 |
| 39 | A_{1g} | A1g | 3 | — | $\mathbb{Q}_6^{(h,A_{1g},3)}$ | $\text{Qh}(6, \text{A1g}, 3,)$ | S_3 |
| 40 | A_{2g} | A2g | 1 | — | $\mathbb{Q}_6^{(h,A_{2g},1)}$ | $\text{Qh}(6, \text{A2g}, 1,)$ | S_6 |
| 41 | A_{2g} | A2g | 2 | — | $\mathbb{Q}_6^{(h,A_{2g},2)}$ | $\text{Qh}(6, \text{A2g}, 2,)$ | C_3 |
| 42 | E_g | Eg | 1 | 0 | $\mathbb{Q}_{6,0}^{(h,E_g,1)}$ | $\text{Qh}(6, \text{Eg}, 1, 0)$ | C_5 |
| 43 | E_g | Eg | 1 | 1 | $\mathbb{Q}_{6,1}^{(h,E_g,1)}$ | $\text{Qh}(6, \text{Eg}, 1, 1)$ | $-S_5$ |
| 44 | E_g | Eg | 2 | 0 | $\mathbb{Q}_{6,0}^{(h,E_g,2)}$ | $\text{Qh}(6, \text{Eg}, 2, 0)$ | C_1 |
| 45 | E_g | Eg | 2 | 1 | $\mathbb{Q}_{6,1}^{(h,E_g,2)}$ | $\text{Qh}(6, \text{Eg}, 2, 1)$ | S_1 |
| 46 | E_g | Eg | 3 | 0 | $\mathbb{Q}_{6,0}^{(h,E_g,3)}$ | $\text{Qh}(6, \text{Eg}, 3, 0)$ | S_4 |
| 47 | E_g | Eg | 3 | 1 | $\mathbb{Q}_{6,1}^{(h,E_g,3)}$ | $\text{Qh}(6, \text{Eg}, 3, 1)$ | $-C_4$ |
| 48 | E_g | Eg | 4 | 0 | $\mathbb{Q}_{6,0}^{(h,E_g,4)}$ | $\text{Qh}(6, \text{Eg}, 4, 0)$ | $-S_2$ |
| 49 | E_g | Eg | 4 | 1 | $\mathbb{Q}_{6,1}^{(h,E_g,4)}$ | $\text{Qh}(6, \text{Eg}, 4, 1)$ | $-C_2$ |

表 8 rank 7

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|-----------------------|-------------------|------------|
| 50 | A_{1u} | A1u | 1 | — | $Q_7^{(h,A_{1u},1)}$ | $Qh(7, A1u, 1,)$ | S_6 |
| 51 | A_{1u} | A1u | 2 | — | $Q_7^{(h,A_{1u},2)}$ | $Qh(7, A1u, 2,)$ | C_3 |
| 52 | A_{2u} | A2u | 1 | — | $Q_7^{(h,A_{2u},1)}$ | $Qh(7, A2u, 1,)$ | C_0 |
| 53 | A_{2u} | A2u | 2 | — | $Q_7^{(h,A_{2u},2)}$ | $Qh(7, A2u, 2,)$ | C_6 |
| 54 | A_{2u} | A2u | 3 | — | $Q_7^{(h,A_{2u},3)}$ | $Qh(7, A2u, 3,)$ | S_3 |
| 55 | E_u | Eu | 1 | 0 | $Q_{7,0}^{(h,E_u,1)}$ | $Qh(7, Eu, 1, 0)$ | C_7 |
| 56 | E_u | Eu | 1 | 1 | $Q_{7,1}^{(h,E_u,1)}$ | $Qh(7, Eu, 1, 1)$ | S_7 |
| 57 | E_u | Eu | 2 | 0 | $Q_{7,0}^{(h,E_u,2)}$ | $Qh(7, Eu, 2, 0)$ | C_5 |
| 58 | E_u | Eu | 2 | 1 | $Q_{7,1}^{(h,E_u,2)}$ | $Qh(7, Eu, 2, 1)$ | $-S_5$ |
| 59 | E_u | Eu | 3 | 0 | $Q_{7,0}^{(h,E_u,3)}$ | $Qh(7, Eu, 3, 0)$ | C_1 |
| 60 | E_u | Eu | 3 | 1 | $Q_{7,1}^{(h,E_u,3)}$ | $Qh(7, Eu, 3, 1)$ | S_1 |
| 61 | E_u | Eu | 4 | 0 | $Q_{7,0}^{(h,E_u,4)}$ | $Qh(7, Eu, 4, 0)$ | S_4 |
| 62 | E_u | Eu | 4 | 1 | $Q_{7,1}^{(h,E_u,4)}$ | $Qh(7, Eu, 4, 1)$ | $-C_4$ |
| 63 | E_u | Eu | 5 | 0 | $Q_{7,0}^{(h,E_u,5)}$ | $Qh(7, Eu, 5, 0)$ | $-S_2$ |
| 64 | E_u | Eu | 5 | 1 | $Q_{7,1}^{(h,E_u,5)}$ | $Qh(7, Eu, 5, 1)$ | $-C_2$ |

表 9 rank 8

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|------------|------|-------|-----------------------|-------------------|------------|
| 65 | A_{1g} | A1g | 1 | — | $Q_8^{(h,A_{1g},1)}$ | $Qh(8, A1g, 1,)$ | C_0 |
| 66 | A_{1g} | A1g | 2 | — | $Q_8^{(h,A_{1g},2)}$ | $Qh(8, A1g, 2,)$ | C_6 |
| 67 | A_{1g} | A1g | 3 | — | $Q_8^{(h,A_{1g},3)}$ | $Qh(8, A1g, 3,)$ | S_3 |
| 68 | A_{2g} | A2g | 1 | — | $Q_8^{(h,A_{2g},1)}$ | $Qh(8, A2g, 1,)$ | S_6 |
| 69 | A_{2g} | A2g | 2 | — | $Q_8^{(h,A_{2g},2)}$ | $Qh(8, A2g, 2,)$ | C_3 |
| 70 | E_g | Eg | 1 | 0 | $Q_{8,0}^{(h,E_g,1)}$ | $Qh(8, Eg, 1, 0)$ | C_7 |
| 71 | E_g | Eg | 1 | 1 | $Q_{8,1}^{(h,E_g,1)}$ | $Qh(8, Eg, 1, 1)$ | S_7 |
| 72 | E_g | Eg | 2 | 0 | $Q_{8,0}^{(h,E_g,2)}$ | $Qh(8, Eg, 2, 0)$ | C_5 |
| 73 | E_g | Eg | 2 | 1 | $Q_{8,1}^{(h,E_g,2)}$ | $Qh(8, Eg, 2, 1)$ | $-S_5$ |
| 74 | E_g | Eg | 3 | 0 | $Q_{8,0}^{(h,E_g,3)}$ | $Qh(8, Eg, 3, 0)$ | C_1 |
| 75 | E_g | Eg | 3 | 1 | $Q_{8,1}^{(h,E_g,3)}$ | $Qh(8, Eg, 3, 1)$ | S_1 |
| 76 | E_g | Eg | 4 | 0 | $Q_{8,0}^{(h,E_g,4)}$ | $Qh(8, Eg, 4, 0)$ | $-S_8$ |
| 77 | E_g | Eg | 4 | 1 | $Q_{8,1}^{(h,E_g,4)}$ | $Qh(8, Eg, 4, 1)$ | $-C_8$ |
| 78 | E_g | Eg | 5 | 0 | $Q_{8,0}^{(h,E_g,5)}$ | $Qh(8, Eg, 5, 0)$ | S_4 |
| 79 | E_g | Eg | 5 | 1 | $Q_{8,1}^{(h,E_g,5)}$ | $Qh(8, Eg, 5, 1)$ | $-C_4$ |
| 80 | E_g | Eg | 6 | 0 | $Q_{8,0}^{(h,E_g,6)}$ | $Qh(8, Eg, 6, 0)$ | $-S_2$ |
| 81 | E_g | Eg | 6 | 1 | $Q_{8,1}^{(h,E_g,6)}$ | $Qh(8, Eg, 6, 1)$ | $-C_2$ |

表 10 rank 9

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|-------|------|-------|--------------------------------|-----------------|------------|
| 82 | A_{1u} | A1u | 1 | — | $\mathbb{Q}_9^{(h,A_{1u},1)}$ | Qh(9, A1u, 1,) | S_6 |
| 83 | A_{1u} | A1u | 2 | — | $\mathbb{Q}_9^{(h,A_{1u},2)}$ | Qh(9, A1u, 2,) | C_9 |
| 84 | A_{1u} | A1u | 3 | — | $\mathbb{Q}_9^{(h,A_{1u},3)}$ | Qh(9, A1u, 3,) | C_3 |
| 85 | A_{2u} | A2u | 1 | — | $\mathbb{Q}_9^{(h,A_{2u},1)}$ | Qh(9, A2u, 1,) | C_0 |
| 86 | A_{2u} | A2u | 2 | — | $\mathbb{Q}_9^{(h,A_{2u},2)}$ | Qh(9, A2u, 2,) | C_6 |
| 87 | A_{2u} | A2u | 3 | — | $\mathbb{Q}_9^{(h,A_{2u},3)}$ | Qh(9, A2u, 3,) | S_9 |
| 88 | A_{2u} | A2u | 4 | — | $\mathbb{Q}_9^{(h,A_{2u},4)}$ | Qh(9, A2u, 4,) | S_3 |
| 89 | E_u | Eu | 1 | 0 | $\mathbb{Q}_{9,0}^{(h,E_u,1)}$ | Qh(9, Eu, 1, 0) | C_7 |
| 90 | E_u | Eu | 1 | 1 | $\mathbb{Q}_{9,1}^{(h,E_u,1)}$ | Qh(9, Eu, 1, 1) | S_7 |
| 91 | E_u | Eu | 2 | 0 | $\mathbb{Q}_{9,0}^{(h,E_u,2)}$ | Qh(9, Eu, 2, 0) | C_5 |
| 92 | E_u | Eu | 2 | 1 | $\mathbb{Q}_{9,1}^{(h,E_u,2)}$ | Qh(9, Eu, 2, 1) | $-S_5$ |
| 93 | E_u | Eu | 3 | 0 | $\mathbb{Q}_{9,0}^{(h,E_u,3)}$ | Qh(9, Eu, 3, 0) | C_1 |
| 94 | E_u | Eu | 3 | 1 | $\mathbb{Q}_{9,1}^{(h,E_u,3)}$ | Qh(9, Eu, 3, 1) | S_1 |
| 95 | E_u | Eu | 4 | 0 | $\mathbb{Q}_{9,0}^{(h,E_u,4)}$ | Qh(9, Eu, 4, 0) | $-S_8$ |
| 96 | E_u | Eu | 4 | 1 | $\mathbb{Q}_{9,1}^{(h,E_u,4)}$ | Qh(9, Eu, 4, 1) | $-C_8$ |
| 97 | E_u | Eu | 5 | 0 | $\mathbb{Q}_{9,0}^{(h,E_u,5)}$ | Qh(9, Eu, 5, 0) | S_4 |
| 98 | E_u | Eu | 5 | 1 | $\mathbb{Q}_{9,1}^{(h,E_u,5)}$ | Qh(9, Eu, 5, 1) | $-C_4$ |
| 99 | E_u | Eu | 6 | 0 | $\mathbb{Q}_{9,0}^{(h,E_u,6)}$ | Qh(9, Eu, 6, 0) | $-S_2$ |
| 100 | E_u | Eu | 6 | 1 | $\mathbb{Q}_{9,1}^{(h,E_u,6)}$ | Qh(9, Eu, 6, 1) | $-C_2$ |

表 11 rank 10

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|-------|------|-------|----------------------------------|------------------|------------|
| 101 | A_{1g} | A1g | 1 | — | $\mathbb{Q}_{10}^{(h,A_{1g},1)}$ | Qh(10, A1g, 1,) | C_0 |
| 102 | A_{1g} | A1g | 2 | — | $\mathbb{Q}_{10}^{(h,A_{1g},2)}$ | Qh(10, A1g, 2,) | C_6 |
| 103 | A_{1g} | A1g | 3 | — | $\mathbb{Q}_{10}^{(h,A_{1g},3)}$ | Qh(10, A1g, 3,) | S_9 |
| 104 | A_{1g} | A1g | 4 | — | $\mathbb{Q}_{10}^{(h,A_{1g},4)}$ | Qh(10, A1g, 4,) | S_3 |
| 105 | A_{2g} | A2g | 1 | — | $\mathbb{Q}_{10}^{(h,A_{2g},1)}$ | Qh(10, A2g, 1,) | S_6 |
| 106 | A_{2g} | A2g | 2 | — | $\mathbb{Q}_{10}^{(h,A_{2g},2)}$ | Qh(10, A2g, 2,) | C_9 |
| 107 | A_{2g} | A2g | 3 | — | $\mathbb{Q}_{10}^{(h,A_{2g},3)}$ | Qh(10, A2g, 3,) | C_3 |
| 108 | E_g | Eg | 1 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,1)}$ | Qh(10, Eg, 1, 0) | C_7 |
| 109 | E_g | Eg | 1 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,1)}$ | Qh(10, Eg, 1, 1) | S_7 |
| 110 | E_g | Eg | 2 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,2)}$ | Qh(10, Eg, 2, 0) | C_5 |
| 111 | E_g | Eg | 2 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,2)}$ | Qh(10, Eg, 2, 1) | $-S_5$ |
| 112 | E_g | Eg | 3 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,3)}$ | Qh(10, Eg, 3, 0) | C_1 |
| 113 | E_g | Eg | 3 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,3)}$ | Qh(10, Eg, 3, 1) | S_1 |
| 114 | E_g | Eg | 4 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,4)}$ | Qh(10, Eg, 4, 0) | S_{10} |
| 115 | E_g | Eg | 4 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,4)}$ | Qh(10, Eg, 4, 1) | $-C_{10}$ |
| 116 | E_g | Eg | 5 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,5)}$ | Qh(10, Eg, 5, 0) | $-S_8$ |
| 117 | E_g | Eg | 5 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,5)}$ | Qh(10, Eg, 5, 1) | $-C_8$ |
| 118 | E_g | Eg | 6 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,6)}$ | Qh(10, Eg, 6, 0) | S_4 |
| 119 | E_g | Eg | 6 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,6)}$ | Qh(10, Eg, 6, 1) | $-C_4$ |
| 120 | E_g | Eg | 7 | 0 | $\mathbb{Q}_{10,0}^{(h,E_g,7)}$ | Qh(10, Eg, 7, 0) | $-S_2$ |
| 121 | E_g | Eg | 7 | 1 | $\mathbb{Q}_{10,1}^{(h,E_g,7)}$ | Qh(10, Eg, 7, 1) | $-C_2$ |

表 12 rank 11

| No. | irrep. | (tag) | mul. | comp. | harmonics | (tag) | definition |
|-----|----------|-------|------|-------|----------------------------------|----------------------------------|------------|
| 122 | A_{1u} | A1u | 1 | — | $\mathbb{Q}_{11}^{(h,A_{1u},1)}$ | $\text{Qh}(11, \text{A1u}, 1,)$ | S_6 |
| 123 | A_{1u} | A1u | 2 | — | $\mathbb{Q}_{11}^{(h,A_{1u},2)}$ | $\text{Qh}(11, \text{A1u}, 2,)$ | C_9 |
| 124 | A_{1u} | A1u | 3 | — | $\mathbb{Q}_{11}^{(h,A_{1u},3)}$ | $\text{Qh}(11, \text{A1u}, 3,)$ | C_3 |
| 125 | A_{2u} | A2u | 1 | — | $\mathbb{Q}_{11}^{(h,A_{2u},1)}$ | $\text{Qh}(11, \text{A2u}, 1,)$ | C_0 |
| 126 | A_{2u} | A2u | 2 | — | $\mathbb{Q}_{11}^{(h,A_{2u},2)}$ | $\text{Qh}(11, \text{A2u}, 2,)$ | C_6 |
| 127 | A_{2u} | A2u | 3 | — | $\mathbb{Q}_{11}^{(h,A_{2u},3)}$ | $\text{Qh}(11, \text{A2u}, 3,)$ | S_9 |
| 128 | A_{2u} | A2u | 4 | — | $\mathbb{Q}_{11}^{(h,A_{2u},4)}$ | $\text{Qh}(11, \text{A2u}, 4,)$ | S_3 |
| 129 | E_u | Eu | 1 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,1)}$ | $\text{Qh}(11, \text{Eu}, 1, 0)$ | C_{11} |
| 130 | E_u | Eu | 1 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,1)}$ | $\text{Qh}(11, \text{Eu}, 1, 1)$ | $-S_{11}$ |
| 131 | E_u | Eu | 2 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,2)}$ | $\text{Qh}(11, \text{Eu}, 2, 0)$ | C_7 |
| 132 | E_u | Eu | 2 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,2)}$ | $\text{Qh}(11, \text{Eu}, 2, 1)$ | S_7 |
| 133 | E_u | Eu | 3 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,3)}$ | $\text{Qh}(11, \text{Eu}, 3, 0)$ | C_5 |
| 134 | E_u | Eu | 3 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,3)}$ | $\text{Qh}(11, \text{Eu}, 3, 1)$ | $-S_5$ |
| 135 | E_u | Eu | 4 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,4)}$ | $\text{Qh}(11, \text{Eu}, 4, 0)$ | C_1 |
| 136 | E_u | Eu | 4 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,4)}$ | $\text{Qh}(11, \text{Eu}, 4, 1)$ | S_1 |
| 137 | E_u | Eu | 5 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,5)}$ | $\text{Qh}(11, \text{Eu}, 5, 0)$ | S_{10} |
| 138 | E_u | Eu | 5 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,5)}$ | $\text{Qh}(11, \text{Eu}, 5, 1)$ | $-C_{10}$ |
| 139 | E_u | Eu | 6 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,6)}$ | $\text{Qh}(11, \text{Eu}, 6, 0)$ | $-S_8$ |
| 140 | E_u | Eu | 6 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,6)}$ | $\text{Qh}(11, \text{Eu}, 6, 1)$ | $-C_8$ |
| 141 | E_u | Eu | 7 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,7)}$ | $\text{Qh}(11, \text{Eu}, 7, 0)$ | S_4 |
| 142 | E_u | Eu | 7 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,7)}$ | $\text{Qh}(11, \text{Eu}, 7, 1)$ | $-C_4$ |
| 143 | E_u | Eu | 8 | 0 | $\mathbb{Q}_{11,0}^{(h,E_u,8)}$ | $\text{Qh}(11, \text{Eu}, 8, 0)$ | $-S_2$ |
| 144 | E_u | Eu | 8 | 1 | $\mathbb{Q}_{11,1}^{(h,E_u,8)}$ | $\text{Qh}(11, \text{Eu}, 8, 1)$ | $-C_2$ |