

Table 1: $[j_1 \otimes j_2 = 1/2 \otimes 1/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	$-1/2$	$-1/2$	1	-1	$\frac{1}{2}$
2	$-1/2$	$1/2$	0	0	$-\sqrt{1/2}$
3	$-1/2$	$1/2$	1	0	$\sqrt{1/2}$
4	$1/2$	$-1/2$	0	0	$\sqrt{1/2}$
5	$1/2$	$-1/2$	1	0	$\sqrt{1/2}$
6	$1/2$	$1/2$	1	1	1

$$|j_1 j_2 m_1 m_2\rangle \equiv |j_1 m_1\rangle \otimes |j_2 m_2\rangle$$

$$|JM\rangle = \sum_{-j_1 \leq m_1 \leq j_1} \sum_{-j_2 \leq m_2 \leq j_2} |j_1 j_2 m_1 m_2\rangle \langle j_1 j_2 m_1 m_2 | (j_1 j_2) J M \rangle$$

$$|j_1 j_2 m_1 m_2\rangle = \sum_J \sum_{-J \leq M \leq J} |JM\rangle \langle (j_1 j_2) J M | j_1 j_2 m_1 m_2 \rangle$$

Table 2: $[j_1 \otimes j_2 = 1 \otimes 1/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-1	-1/2	3/2	-3/2	$\frac{1}{2}$
2	-1	1/2	1/2	-1/2	$-\sqrt{2/3}$
3	-1	1/2	3/2	-1/2	$\sqrt{1/3}$
4	0	-1/2	1/2	-1/2	$\sqrt{1/3}$
5	0	-1/2	3/2	-1/2	$\sqrt{2/3}$
6	0	1/2	1/2	1/2	$-\sqrt{1/3}$
7	0	1/2	3/2	1/2	$\sqrt{2/3}$
8	1	-1/2	1/2	1/2	$\sqrt{2/3}$
9	1	-1/2	3/2	1/2	$\sqrt{1/3}$
10	1	1/2	3/2	3/2	1

Table 3: $[j_1 \otimes j_2 = 1 \otimes 1]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-1	-1	2	-2	$\frac{1}{2}$
2	-1	0	1	-1	$-\sqrt{1/2}$
3	-1	0	2	-1	$\sqrt{1/2}$
4	-1	1	0	0	$\sqrt{1/3}$
5	-1	1	1	0	$-\sqrt{1/2}$
6	-1	1	2	0	$\sqrt{1/6}$
7	0	-1	1	-1	$\sqrt{1/2}$
8	0	-1	2	-1	$\sqrt{1/2}$
9	0	0	0	0	$\sqrt{1/3}$
10	0	0	2	0	$\sqrt{2/3}$
11	0	1	1	1	$-\sqrt{1/2}$
12	0	1	2	1	$\sqrt{1/2}$
13	1	-1	0	0	$\sqrt{1/3}$
14	1	-1	1	0	$\sqrt{1/2}$
15	1	-1	2	0	$\sqrt{1/6}$
16	1	0	1	1	$\sqrt{1/2}$
17	1	0	2	1	$\sqrt{1/2}$
18	1	1	2	2	1

Table 4: $[j_1 \otimes j_2 = 3/2 \otimes 1/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	$-3/2$	$-1/2$	2	-2	$\frac{1}{2}$
2	$-3/2$	$1/2$	1	-1	$-\sqrt{3/4}$
3	$-3/2$	$1/2$	2	-1	$\sqrt{1/4}$
4	$-1/2$	$-1/2$	1	-1	$\sqrt{1/4}$
5	$-1/2$	$-1/2$	2	-1	$\sqrt{3/4}$
6	$-1/2$	$1/2$	1	0	$-\sqrt{1/2}$
7	$-1/2$	$1/2$	2	0	$\sqrt{1/2}$
8	$1/2$	$-1/2$	1	0	$\sqrt{1/2}$
9	$1/2$	$-1/2$	2	0	$\sqrt{3/4}$
10	$1/2$	$1/2$	1	1	$-\sqrt{1/4}$
11	$1/2$	$1/2$	2	1	$\sqrt{3/4}$
12	$3/2$	$-1/2$	1	1	$\sqrt{3/4}$
13	$3/2$	$-1/2$	2	1	$\sqrt{1/4}$
14	$3/2$	$1/2$	2	2	1

Table 5: $[j_1 \otimes j_2 = 3/2 \otimes 1]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	$-3/2$	-1	5/2	-5/2	$\frac{1}{2}$
2	$-3/2$	0	3/2	-3/2	$-\sqrt{3/5}$
3	$-3/2$	0	5/2	-3/2	$\sqrt{2/5}$
4	$-3/2$	1	1/2	-1/2	$\sqrt{1/2}$
5	$-3/2$	1	3/2	-1/2	$-\sqrt{2/5}$
6	$-3/2$	1	5/2	-1/2	$\sqrt{1/10}$
7	$-1/2$	-1	3/2	-3/2	$\sqrt{2/5}$
8	$-1/2$	-1	5/2	-3/2	$\sqrt{3/5}$
9	$-1/2$	0	1/2	-1/2	$-\sqrt{1/3}$
10	$-1/2$	0	3/2	-1/2	$\sqrt{2/15}$
11	$-1/2$	0	5/2	-1/2	$\sqrt{3/5}$
12	$-1/2$	1	1/2	1/2	$\sqrt{1/6}$
13	$-1/2$	1	3/2	1/2	$-\sqrt{8/15}$
14	$-1/2$	1	5/2	1/2	$\sqrt{3/10}$
15	$1/2$	-1	1/2	-1/2	$\sqrt{1/6}$
16	$1/2$	-1	3/2	-1/2	$\sqrt{8/15}$
17	$1/2$	-1	5/2	-1/2	$\sqrt{3/10}$
18	$1/2$	0	1/2	1/2	$-\sqrt{1/3}$
19	$1/2$	0	3/2	1/2	$\sqrt{2/15}$
20	$1/2$	0	5/2	1/2	$\sqrt{3/5}$
21	$1/2$	1	3/2	3/2	$-\sqrt{2/5}$
22	$1/2$	1	5/2	3/2	$\sqrt{3/5}$
23	$3/2$	-1	1/2	1/2	$\sqrt{1/2}$
24	$3/2$	-1	3/2	1/2	$\sqrt{2/5}$
25	$3/2$	-1	5/2	1/2	$\sqrt{1/10}$
26	$3/2$	0	3/2	3/2	$\sqrt{3/5}$
27	$3/2$	0	5/2	3/2	$\sqrt{2/5}$
28	$3/2$	1	5/2	5/2	1

Table 6: $[j_1 \otimes j_2 = 3/2 \otimes 3/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	$-3/2$	$-3/2$	3	-3	$\frac{1}{2}$
2	$-3/2$	$-1/2$	2	-2	$-\sqrt{1/2}$
3	$-3/2$	$-1/2$	3	-2	$\sqrt{1/2}$
4	$-3/2$	$1/2$	1	-1	$\sqrt{3/10}$
5	$-3/2$	$1/2$	2	-1	$-\sqrt{1/2}$
6	$-3/2$	$1/2$	3	-1	$\sqrt{1/5}$
7	$-3/2$	$3/2$	0	0	$-\sqrt{1/4}$
8	$-3/2$	$3/2$	1	0	$\sqrt{9/20}$
9	$-3/2$	$3/2$	2	0	$-\sqrt{1/4}$
10	$-3/2$	$3/2$	3	0	$\sqrt{1/20}$
11	$-1/2$	$-3/2$	2	-2	$\sqrt{1/2}$
12	$-1/2$	$-3/2$	3	-2	$\sqrt{1/2}$
13	$-1/2$	$-1/2$	1	-1	$-\sqrt{2/5}$
14	$-1/2$	$-1/2$	3	-1	$\sqrt{3/5}$
15	$-1/2$	$1/2$	0	0	$\sqrt{1/4}$
16	$-1/2$	$1/2$	1	0	$-\sqrt{1/20}$
17	$-1/2$	$1/2$	2	0	$-\sqrt{1/4}$
18	$-1/2$	$1/2$	3	0	$\sqrt{9/20}$
19	$-1/2$	$3/2$	1	1	$\sqrt{3/10}$
20	$-1/2$	$3/2$	2	1	$-\sqrt{1/2}$
21	$-1/2$	$3/2$	3	1	$\sqrt{1/5}$
22	$1/2$	$-3/2$	1	-1	$\sqrt{3/10}$
23	$1/2$	$-3/2$	2	-1	$\sqrt{1/2}$
24	$1/2$	$-3/2$	3	-1	$\sqrt{1/5}$
25	$1/2$	$-1/2$	0	0	$-\sqrt{1/4}$
26	$1/2$	$-1/2$	1	0	$-\sqrt{1/20}$
27	$1/2$	$-1/2$	2	0	$\sqrt{1/4}$
28	$1/2$	$-1/2$	3	0	$\sqrt{9/20}$
29	$1/2$	$1/2$	1	1	$-\sqrt{2/5}$
30	$1/2$	$1/2$	3	1	$\sqrt{3/5}$
31	$1/2$	$3/2$	2	2	$-\sqrt{1/2}$
32	$1/2$	$3/2$	3	2	$\sqrt{1/2}$
33	$3/2$	$-3/2$	0	0	$\sqrt{1/4}$
34	$3/2$	$-3/2$	1	0	$\sqrt{9/20}$
35	$3/2$	$-3/2$	2	0	$\sqrt{1/4}$
36	$3/2$	$-3/2$	3	0	$\sqrt{1/20}$
37	$3/2$	$-1/2$	1	1	$\sqrt{3/10}$
38	$3/2$	$-1/2$	2	1	$\sqrt{1/2}$
39	$3/2$	$-1/2$	3	1	$\sqrt{1/5}$
40	$3/2$	$1/2$	2	2	$\sqrt{1/2}$
41	$3/2$	$1/2$	3	2	$\sqrt{1/2}$
42	$3/2$	$3/2$	3	3	1

Table 7: $[j_1 \otimes j_2 = 2 \otimes 1/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-2	-1/2	5/2	-5/2	$-\sqrt{4/5}$
2	-2	1/2	3/2	-3/2	$\sqrt{1/5}$
3	-2	1/2	5/2	-3/2	$\sqrt{3/5}$
4	-1	-1/2	3/2	-3/2	$\sqrt{1/5}$
5	-1	-1/2	5/2	-3/2	$\sqrt{3/5}$
6	-1	1/2	3/2	-1/2	$-\sqrt{3/5}$
7	-1	1/2	5/2	-1/2	$\sqrt{2/5}$
8	0	-1/2	3/2	-1/2	$\sqrt{2/5}$
9	0	-1/2	5/2	-1/2	$\sqrt{3/5}$
10	0	1/2	3/2	1/2	$-\sqrt{2/5}$
11	0	1/2	5/2	1/2	$\sqrt{3/5}$
12	1	-1/2	3/2	1/2	$\sqrt{3/5}$
13	1	-1/2	5/2	1/2	$\sqrt{2/5}$
14	1	1/2	3/2	3/2	$-\sqrt{1/5}$
15	1	1/2	5/2	3/2	$\sqrt{4/5}$
16	2	-1/2	3/2	3/2	$\sqrt{1/5}$
17	2	-1/2	5/2	3/2	$\sqrt{1/5}$
18	2	1/2	5/2	5/2	1

Table 8: $[j_1 \otimes j_2 = 2 \otimes 1]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-2	-2	4	-4	$\frac{1}{2}$
2	-2	0	2	-2	$-\sqrt{2/3}$
3	-2	0	3	-2	$\sqrt{1/3}$
4	-2	1	1	-1	$\sqrt{3/5}$
5	-2	1	2	-1	$-\sqrt{1/3}$
6	-2	1	3	-1	$\sqrt{1/15}$
7	-1	-1	2	-2	$\sqrt{1/3}$
8	-1	-1	3	-2	$\sqrt{2/3}$
9	-1	0	1	-1	$-\sqrt{3/10}$
10	-1	0	2	-1	$-\sqrt{1/6}$
11	-1	0	3	-1	$\sqrt{8/15}$
12	-1	1	1	0	$\sqrt{3/10}$
13	-1	1	2	0	$-\sqrt{1/2}$
14	-1	1	3	0	$\sqrt{1/5}$
15	0	-1	1	0	$\sqrt{1/10}$
16	0	-1	2	-1	$\sqrt{1/2}$
17	0	-1	3	-1	$\sqrt{2/5}$
18	0	0	0	0	$\sqrt{1/3}$
19	0	0	1	0	$\sqrt{2/3}$
20	0	1	1	1	$-\sqrt{1/2}$
21	0	1	2	1	$\sqrt{1/10}$
22	0	1	3	1	$\sqrt{2/5}$
23	1	-1	1	0	$\sqrt{1/2}$
24	1	-1	2	0	$\sqrt{1/5}$
25	1	-1	3	0	$\sqrt{1/10}$
26	1	0	1	1	$-\sqrt{3/10}$
27	1	0	2	1	$\sqrt{1/6}$
28	1	0	3	1	$\sqrt{8/15}$
29	1	1	2	2	$-\sqrt{1/3}$
30	1	1	3	2	$\sqrt{2/3}$
31	2	-1	1	1	$\sqrt{3/5}$
32	2	-1	2	1	$\sqrt{1/3}$
33	2	-1	3	1	$\sqrt{1/15}$
34	2	0	2	2	$\sqrt{1/3}$
35	2	0	3	2	$\sqrt{2/3}$
36	2	1	3	3	1

Table 9: $[j_1 \otimes j_2 = 2 \otimes 3/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-2	$-3/2$	7/2	-7/2	$\frac{1}{2}$
2	-2	$-1/2$	5/2	-5/2	$-\sqrt{4/7}$
3	-2	$1/2$	7/2	-5/2	$\sqrt{3/7}$
4	-2	$1/2$	3/2	-3/2	$\sqrt{2/5}$
5	-2	$1/2$	5/2	-3/2	$-\sqrt{16/35}$
6	-2	$1/2$	7/2	-3/2	$\sqrt{1/7}$
7	-2	$3/2$	1/2	-1/2	$-\sqrt{2/5}$
8	-2	<			

Table 13: $[j_1 \otimes j_2 = 5/2 \otimes 3/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-5/2	-3/2	4	-4	$-\sqrt{5/8}$
2	-5/2	-1/2	3	-3	$-\sqrt{3/8}$
3	-5/2	1/2	4	-3	$-\sqrt{10/21}$
4	-5/2	1/2	2	-2	$-\sqrt{5/12}$
5	-5/2	1/2	3	-2	$-\sqrt{5/28}$
6	-5/2	3/2	4	-1	$-\sqrt{1/2}$
7	-5/2	3/2	2	-1	$-\sqrt{5/14}$
8	-5/2	3/2	3	-1	$-\sqrt{1/8}$
9	-5/2	3/2	4	-1	$-\sqrt{1/56}$
10	-3/2	-3/2	3	-3	$-\sqrt{3/8}$
11	-3/2	-3/2	4	-3	$-\sqrt{5/8}$
12	-3/2	-1/2	2	-2	$-\sqrt{5/21}$
13	-3/2	-1/2	3	-2	$-\sqrt{1/12}$
14	-3/2	-1/2	3	-2	$-\sqrt{15/28}$
15	-3/2	-1/2	4	-2	$-\sqrt{1/42}$
16	-3/2	1/2	2	-1	$-\sqrt{15/120}$
17	-3/2	1/2	3	-1	$-\sqrt{15/56}$
18	-3/2	1/2	4	0	$-\sqrt{1/15}$
19	-3/2	3/2	2	0	$-\sqrt{3/7}$
20	-3/2	3/2	3	0	$-\sqrt{3/10}$
21	-3/2	3/2	4	0	$-\sqrt{1/14}$
22	-1/2	-3/2	2	-2	$-\sqrt{1/7}$
23	-1/2	-3/2	3	-2	$-\sqrt{5/12}$
24	-1/2	-3/2	4	-2	$-\sqrt{1/14}$
25	-1/2	-3/2	3	-2	$-\sqrt{1/2}$
26	-1/2	-3/2	4	-2	$-\sqrt{5/14}$
27	-1/2	-1/2	1	-1	$-\sqrt{3/20}$
28	-1/2	-1/2	2	-1	$-\sqrt{25/84}$
29	-1/2	-1/2	3	-1	$-\sqrt{1/60}$
30	-1/2	-1/2	4	-1	$-\sqrt{15/28}$
31	-1/2	1/2	1	0	$-\sqrt{5/10}$
32	-1/2	1/2	2	0	$-\sqrt{1/14}$
33	-1/2	1/2	3	0	$-\sqrt{1/5}$
34	-1/2	1/2	4	0	$-\sqrt{3/7}$
35	-1/2	3/2	1	1	$-\sqrt{1/20}$
36	-1/2	3/2	2	1	$-\sqrt{9/28}$
37	-1/2	3/2	3	1	$-\sqrt{9/20}$
38	-1/2	3/2	4	1	$-\sqrt{5/28}$
39	1/2	-3/2	1	-1	$-\sqrt{1/20}$
40	1/2	-3/2	2	-1	$-\sqrt{9/28}$
41	1/2	-3/2	3	-1	$-\sqrt{9/20}$
42	1/2	-3/2	4	-1	$-\sqrt{5/28}$
43	1/2	-1/2	1	0	$-\sqrt{5/10}$
44	1/2	-1/2	2	0	$-\sqrt{1/14}$
45	1/2	-1/2	3	0	$-\sqrt{1/5}$
46	1/2	-1/2	4	0	$-\sqrt{3/7}$
47	1/2	1/2	1	1	$-\sqrt{1/20}$
48	1/2	1/2	2	1	$-\sqrt{9/28}$
49	1/2	1/2	3	1	$-\sqrt{9/20}$
50	1/2	1/2	4	1	$-\sqrt{5/28}$
51	1/2	3/2	2	2	$-\sqrt{1/7}$
52	1/2	3/2	3	2	$-\sqrt{5/12}$
53	1/2	3/2	4	2	$-\sqrt{1/14}$
54	3/2	-3/2	1	0	$-\sqrt{1/5}$
55	3/2	-3/2	2	0	$-\sqrt{3/7}$
56	3/2	-3/2	3	0	$-\sqrt{3/10}$
57	3/2	-3/2	4	0	$-\sqrt{5/14}$
58	3/2	-1/2	1	1	$-\sqrt{3/10}$
59	3/2	-1/2	2	1	$-\sqrt{1/42}$
60	3/2	-1/2	3	1	$-\sqrt{49/120}$
61	3/2	-1/2	4	1	$-\sqrt{15/56}$
62	3/2	1/2	2	2	$-\sqrt{8/21}$
63	3/2	1/2	3	2	$-\sqrt{1/12}$
64	3/2	1/2	4	2	$-\sqrt{15/28}$
65	3/2	3/2	3	3	$-\sqrt{3/8}$
66	3/2	3/2	4	3	$-\sqrt{5/8}$
67	5/2	-3/2	1	1	$-\sqrt{1/2}$
68	5/2	-3/2	2	1	$-\sqrt{5/14}$
69	5/2	-3/2	3	1	$-\sqrt{1/8}$
70	5/2	-3/2	4	1	$-\sqrt{1/56}$
71	5/2	-1/2	2	2	$-\sqrt{10/21}$
72	5/2	-1/2	3	2	$-\sqrt{5/12}$
73	5/2	-1/2	4	2	$-\sqrt{1/14}$
74	5/2	1/2	3	3	$-\sqrt{5/8}$
75	5/2	1/2	4	3	$-\sqrt{3/8}$
76	5/2	3/2	4	4	$-\sqrt{1/8}$

Table 18: $[j_1 \otimes j_2 = 3 \otimes 3/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-3	-3/2	9/2	-9/2	$-\sqrt{2/3}$
2	-3	-1/2	7/2	-7/2	$-\sqrt{3/5}$
3	-3	-1/2	9/2	-7/2	$-\sqrt{1/3}$
4	-3	1/2	5/2	-5/2	$-\sqrt{15/28}$
5	-3	1/2	7/2	-5/2	$-\sqrt{8/21}$
6	-3	1/2	9/2	-5/2	$-\sqrt{1/12}$
7	-3	3/2	3/2	-3/2	$-\sqrt{4/7}$
8	-3	3/2	5/2	-3/2	$-\sqrt{9/28}$
9	-3	3/2	7/2	-3/2	$-\sqrt{2/21}$
10	-3	3/2	9/2	-3/2	$-\sqrt{1/84}$
11	-2	-3/2	7/2	-7/2	$-\sqrt{1/3}$
12	-2	-3/2	9/2	-7/2	$-\sqrt{2/3}$
13	-2	-1/2	5/2	-5/2	$-\sqrt{5/14}$
14	-2	-1/2	7/2	-5/2	$-\sqrt{1/7}$
15	-2	-1/2	9/2	-5/2	$-\sqrt{1/2}$
16	-2	1/2	3/2	-3/2	$-\sqrt{3/7}$
17	-2	1/2	5/2	-3/2	$-\sqrt{1/14}$
18	-2	1/2	7/2	-3/2	$-\sqrt{3/7}$
19	-2	1/2	9/2	-3/2	$-\sqrt{3/14}$
20	-2	3/2	3/2	-1/2	$-\sqrt{2/7}$
21	-2	3/2	5/2	-1/2	$-\sqrt{3/7}$
22	-2	3/2	7/2	-1/2	$-\sqrt{1/21}$
23	-2	3/2	9/2	-1/2	$-\sqrt{5/21}$
24	-1	-3/2	5/2	-5/2	$-\sqrt{3/28}$
25	-1	-3/2	7/2	-5/2	$-\sqrt{10/21}$
26	-1	-3/2	9/2	-5/2	$-\sqrt{5/12}$
27	-1	-1/2	3/2	-3/2	$-\sqrt{4/35}$
28	-1	-1/2	5/2	-3/2	$-\sqrt{7/20}$
29	-1	-1/2	7/2	-3/2	$-\sqrt{15/28}$
30	-1	1/2	3/2	-1/2	$-\sqrt{12/35}$
31	-1	1/2	5/2	-1/2	$-\sqrt{1/70}$
32	-1	1/2	7/2	-1/2	$-\sqrt{2/7}$
33	-1	1/2	9/2	-1/2	$-\sqrt{5/14}$
34	-1	3/2	3/2	1/2	$-\sqrt{4/35}$
35	-1	3/2	5/2	1/2	$-\sqrt{27/70}$
36	-1	3/2	7/2	1/2	$-\sqrt{8/21}$
37	-1	3/2	9/2	1/2	$-\sqrt{5/42}$
38	0	-3/2	3/2	-3/2	$-\sqrt{1/35}$
39	0	-3/2	5/2	-3/2	$-\sqrt{16/21}$
40	0	-3/2	7/2	-3/2	$-\sqrt{5/21}$
41	0	-3/2	9/2	-3/2	$-\sqrt{2/35}$
42	0	-1/2	3/2	-1/2	$-\sqrt{6/35}$
43	0	-1/2	5/2	-1/2	$-\sqrt{2/21}$
44	0	-1/2	7/2	-1/2	$-\sqrt{5/14}$
45	0	1/2	3/2	1/2	$-\sqrt{6/35}$
46	0	1/2	5/2	1/2	$-\sqrt{2/21}$
47	0	1/2	7/2	1/2	$-\sqrt{10/21}$
48	0	3/2	3/2	3/2	$-\sqrt{1/35}$
49	0	3/2	5/2	3/2	$-\sqrt{9/35}$
50	0	3/2	7/2	3/2	$-\sqrt{10/21}$
51	0	3/2	9/2	3/2	$-\sqrt{5/21}$
52	0	3/2	7/2	3/2	$-\sqrt{1/21}$
53	0	3/2	5/2	3/2	$-\sqrt{5/21}$
54	0	-1/2	3/2	-1/2	$-\sqrt{27/70}$
55	1	-3/2	5/2	-5/2	$-\sqrt{3/28}$
56	1	-3/2	7/2	-5/2	$-\sqrt{12/35}$
57	1	-1/2	3/2	-1/2	$-\sqrt{5/42}$
58	1	-1/2	5/2	-1/2	$-\sqrt{12/35}$
59	1	-1/2	7/2	-1/2	$-\sqrt{1/70}$
60	1	-1/2	9/2	-1/2	$-\sqrt{3/70}$
61	1	-1/2	9/2	1/2	$-\sqrt{5/14}$
62	1	1/2	3/2	3/2	$-\sqrt{4/35}$
63	1	1/2	5/2	3/2	$-\sqrt{27/70}$
64	1	1/2	7/2	3/2	$-\sqrt{15/28}$
65	1	3/2	5/2	5/2	$-\sqrt{5/28}$
66	1	3/2	7/2	5/2	$-\sqrt{10/21}$
67	1	3/2	9/2	5/2	$-\sqrt{5/12}$
68	2	-3/2	3/2	1/2	$-\sqrt{2/7}$
69	2	-3/2	5/2	1/2	$-\sqrt{1/7}$
70	2	-3/2	7/2	1/2	$-\sqrt{2/21}$
71	2	-3/2	9/2	1/2	$-\sqrt{1/21}$
72	2	-1/2	3/2	3/2	$-\sqrt{2/7}$
73	2	-1/2	5/2	3/2	$-\sqrt{1/14}$
74	2	-1/2	7/2	3/2	$-\sqrt{3/7}$
75	2	-1/2	9/2	3/2	$-\sqrt{5/14}$
76	2	1/2	5/2	5/2	$-\sqrt{5/14}$
77	2	1/2	7/2	5/2	$-\sqrt{1/2}$
78	2	1/2	9/2	5/2	$-\sqrt{1/2}$
79	2	3/2	3/2	7/2	$-\sqrt{1/3}$
80	2	3/2	5/2	7/2	$-\sqrt{2/3}$
81	3	-3/2	3/2	3/2	$-\sqrt{4/7}$
82	3	-3/2	5/2	3/2	$-\sqrt{9/28}$
83	3	-3/2	7/2	3/2	$-\sqrt{2/21}$
84	3	-3/2	9/2	3/2	$-\sqrt{1/84}$
85	3	-1/2	5/2	5/2	$-\sqrt{15/28}$
86	3	-1/2	7/2	5/2	$-\sqrt{8/21}$
87	3	-1/2	9/2	5/2	$-\sqrt{1/12}$
88	3	1/2	7/2	7/2	$-\sqrt{2/3}$
89	3	1/2	9/2	7/2	$-\sqrt{1/3}$
90	3	3/2	9/2	9/2	1

Table 14: $[j_1 \otimes j_2 = 5/2 \otimes 2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-5/2	-2	9/2	-9/2	$-\sqrt{2/5}$
2	-5/2	-1	7/2	-7/2	$-\sqrt{4/19}$
3	-5/2	-1	9/2	-7/2	$-\sqrt{1/9}$
4	-5/2	0	5/2	-5/2	$-\sqrt{5/14}$
5	-5/2	0	7/2	-5/2	$-\sqrt{10/21}$
6	-5/2	0	9/2	-5/2	$-\sqrt{1/6}$
7	-5/2	1	3/2	-3/2	$-\sqrt{2/7}$
8	-5/2	1	5/2	-3/2	$-\sqrt{5/7}$
9	-5/2	1	7/2	-3/2	$-\sqrt{5/21}$
10	-5/2	1	9/2	-3/2	$-\sqrt{1/21}$
11	-5/2	2	1/2	-1/2	$-\sqrt{1/3}$
12	-5/2	2	3/2	-1/2	$-\sqrt{8/21}$
13	-5/2	2	5/2	-1/2	$-\sqrt{3/14}$
14	-5/2	2	7/2	-1/2	$-\sqrt{4/63}$
15	-5/2	2	9/2	-1/2	$-\sqrt{1/126}$
16	-3/2	-2	7/2	-7/2	$-\sqrt{4/9}$
17	-3/2	-2	9/2	-7/2	$-\sqrt{5/9}$
18	-3/2	-1	5/2	-5/2	$-\sqrt{3/7}$
19	-3/2	-1	7/2	-5/2	$-\sqrt{1/63}$
20	-3/2	-1	9/2	-5/2	$-\sqrt{5/9}$
21	-3/2	0	3/2	-3/2	$-\sqrt{12/35}$
22	-3/2	0	5/2	-3/2	$-\sqrt{1/70}$
23	-3/2	0	7/2	-3/2	$-\sqrt{2/7}$
24	-3/2	0	9/2	-3/2	$-\sqrt{5/14}$
25	-3/2	1	1/2	-1/2	$-\sqrt{4/15}$
26	-3/2	1	3/2	-1/2	$-\sqrt{2/105}$
27	-3/2	1	5/2	-1/2	$-\sqrt{6/35}$
28	-3/2	1	7/2	-1/2	$-\sqrt{121/315}$
29	-3/2	1	9/2	-1/2	$-\sqrt{10/63}$
30	-3/2	2	1/2	1/2	$-\sqrt{1/15}$
31	-3/2	2	3/2	1/2	$-\sqrt{32/105}$
32	-3/2	2	5/2	1/2	$-\sqrt{27/70}$
33	-3/2	2	7/2	1/2	$-\sqrt{64/315}$
34	-1/2	-2	9/2	-5/2	$-\sqrt{5/126}$
35	-1/2	-2	5/2	-5/2	$-\sqrt{3/14}$
36	-1/2	-2	7/2	-5/2	$-\sqrt{32/63}$
37	-1/2	-2	9/2	-5/2	$-\sqrt{5/18}$
38	-1/2	-1	3/2	-3/2	$-\sqrt{9/35}$
39	-1/2	-1	5/2	-3/2	$-\sqrt{6/35}$
40	-1/2	-1	7/2	-3/2	$-\sqrt{2/21}$
41	-1/2	-1	9/2	-3/2	$-\sqrt{10/21}$
42	-1/2	0	1/2	-1/2	$-\$

Table 21: $[j_1 \otimes j_2 = 3 \otimes 3]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-3	-3	6	-6	$-\sqrt{1/2}$
2	-3	-2	5	-5	$\sqrt{1/2}$
3	-3	-2	6	-5	$\sqrt{3/11}$
4	-3	-1	4	-4	$-\sqrt{1/2}$
5	-3	-1	5	-4	$-\sqrt{1/2}$
6	-3	-1	6	-4	$\sqrt{5/22}$
7	-3	0	3	-3	$-\sqrt{1/6}$
8	-3	0	4	-3	$\sqrt{9/22}$
9	-3	0	5	-3	$-\sqrt{1/3}$
10	-3	0	6	-3	$\sqrt{1/11}$
11	-3	1	2	-2	$\sqrt{5/42}$
12	-3	1	3	-2	$\sqrt{1/3}$
13	-3	1	4	-2	$\sqrt{27/77}$
14	-3	1	5	-2	$-\sqrt{1/7}$
15	-3	1	6	-2	$\sqrt{1/33}$
16	-3	2	1	-1	$-\sqrt{3/28}$
17	-3	2	2	-1	$\sqrt{25/84}$
18	-3	2	3	-1	$-\sqrt{1/3}$
19	-3	2	4	-1	$\sqrt{15/77}$
20	-3	2	5	-1	$-\sqrt{5/84}$
21	-3	2	6	-1	$\sqrt{1/132}$
22	-3	3	0	0	$\sqrt{1/7}$
23	-3	3	1	0	$-\sqrt{9/28}$
24	-3	3	2	0	$\sqrt{25/84}$
25	-3	3	3	0	$-\sqrt{1/6}$
26	-3	3	4	0	$\sqrt{9/154}$
27	-3	3	5	0	$-\sqrt{1/84}$
28	-3	3	6	0	$\sqrt{1/924}$
29	-2	-3	5	-5	$\sqrt{1/2}$
30	-2	-3	6	-5	$\sqrt{1/2}$
31	-2	-2	4	-4	$-\sqrt{5/11}$
32	-2	-2	6	-4	$\sqrt{6/11}$
33	-2	-1	3	-3	$\sqrt{1/3}$
34	-2	-1	4	-3	$-\sqrt{1/11}$
35	-2	-1	5	-3	$-\sqrt{1/6}$
36	-2	-1	6	-3	$\sqrt{9/22}$
37	-2	0	2	-2	$-\sqrt{5/21}$
38	-2	0	3	-2	$\sqrt{1/6}$
39	-2	0	4	-2	$\sqrt{3/154}$
40	-2	0	5	-2	$-\sqrt{1/3}$
41	-2	0	6	-2	$\sqrt{8/33}$
42	-2	1	1	-1	$\sqrt{5/28}$
43	-2	1	2	-1	$-\sqrt{5/28}$
44	-2	1	4	-1	$\sqrt{16/77}$
45	-2	1	5	-1	$-\sqrt{9/28}$
46	-2	1	6	-1	$\sqrt{5/44}$
47	-2	2	0	0	$\sqrt{1/7}$
48	-2	2	1	0	$-\sqrt{3/28}$
49	-2	2	2	0	$\sqrt{25/84}$
50	-2	2	3	0	$-\sqrt{1/6}$
51	-2	2	4	0	$\sqrt{7/22}$
52	-2	2	5	0	$-\sqrt{1/21}$
53	-2	2	6	0	$\sqrt{1/77}$
54	-2	3	1	1	$-\sqrt{25/84}$
55	-2	3	2	1	$-\sqrt{1/3}$
56	-2	3	3	1	$\sqrt{15/77}$
57	-2	3	4	1	$-\sqrt{1/84}$
58	-2	3	5	1	$\sqrt{1/132}$
59	-1	-3	4	-4	$\sqrt{3/11}$
60	-1	-3	5	-4	$\sqrt{1/2}$
61	-1	-3	6	-4	$\sqrt{5/22}$
62	-1	-2	3	-3	$-\sqrt{1/3}$
63	-1	-2	4	-3	$-\sqrt{1/11}$
64	-1	-2	5	-3	$\sqrt{1/6}$
65	-1	-2	6	-3	$\sqrt{9/22}$
66	-1	-1	2	-2	$\sqrt{5/7}$
67	-1	-1	4	-2	$-\sqrt{20/77}$
68	-1	-1	6	-2	$\sqrt{5/11}$
69	-1	0	1	-1	$-\sqrt{3/14}$
70	-1	0	2	-1	$\sqrt{1/42}$
71	-1	0	3	-1	$\sqrt{1/6}$
72	-1	0	4	-1	$-\sqrt{15/154}$
73	-1	0	5	-1	$-\sqrt{5/42}$
74	-1	0	6	-1	$\sqrt{25/66}$
75	-1	1	0	0	$\sqrt{1/7}$
76	-1	1	1	0	$-\sqrt{1/28}$
77	-1	1	2	0	$\sqrt{3/28}$
78	-1	1	3	0	$\sqrt{1/154}$
79	-1	1	4	0	$\sqrt{25/84}$
80	-1	1	5	0	$-\sqrt{1/6}$
81	-1	1	6	0	$\sqrt{75/308}$
82	-1	2	1	1	$-\sqrt{5/28}$
83	-1	2	2	1	$-\sqrt{5/28}$
84	-1	2	4	1	$\sqrt{16/77}$
85	-1	2	5	1	$-\sqrt{9/28}$
86	-1	2	6	1	$\sqrt{5/44}$
87	-1	3	2	2	$\sqrt{5/42}$
88	-1	3	3	2	$-\sqrt{1/3}$
89	-1	3	4	2	$\sqrt{27/77}$
90	-1	3	5	2	$-\sqrt{1/6}$
91	-1	3	6	2	$\sqrt{1/33}$
92	0	-3	3	-3	$\sqrt{1/6}$
93	0	-3	4	-3	$\sqrt{9/22}$
94	0	-3	5	-3	$\sqrt{1/3}$
95	0	-3	6	-3	$\sqrt{1/11}$
96	0	-2	2	-2	$-\sqrt{5/21}$
97	0	-2	3	-2	$-\sqrt{1/6}$
98	0	-2	4	-2	$\sqrt{3/154}$
99	0	-2	5	-2	$\sqrt{1/3}$
100	0	-2	6	-2	$\sqrt{8/33}$
101	0	-1	1	-1	$\sqrt{3/14}$
102	0	-1	2	-1	$\sqrt{1/42}$
103	0	-1	3	-1	$-\sqrt{1/6}$
104	0	-1	4	-1	$-\sqrt{15/154}$
105	0	-1	5	-1	$-\sqrt{5/42}$
106	0	-1	6	-1	$\sqrt{25/66}$
107	0	0	0	0	$\sqrt{1/7}$
108	0	0	2	0	$\sqrt{4/21}$
109	0	0	4	0	$\sqrt{15/77}$
110	0	0	6	0	$\sqrt{100/231}$
111	0	1	1	1	$-\sqrt{3/14}$
112	0	1	2	1	$\sqrt{1/42}$
113	0	1	3	1	$\sqrt{1/6}$
114	0	1	4	1	$-\sqrt{15/154}$
115	0	1	5	1	$-\sqrt{5/42}$
116	0	1	6	1	$\sqrt{25/66}$
117	0	2	2	2	$-\sqrt{5/21}$
118	0	2	3	2	$\sqrt{3/154}$
119	0	2	4	2	$-\sqrt{1/3}$
120	0	2	5	2	$\sqrt{8/33}$
121	0	2	6	2	$\sqrt{1/11}$
122	0	3	3	3	$-\sqrt{1/6}$
123	0	3	4	3	$\sqrt{9/22}$
124	0	3	5	3	$-\sqrt{1/3}$
125	0	3	6	3	$\sqrt{1/11}$
126	1	-3	2	-2	$\sqrt{5/42}$
127	1	-3	3	-2	$\sqrt{1/3}$
128	1	-3	4	-2	$\sqrt{27/77}$
129	1	-3	5	-2	$\sqrt{1/6}$
130	1	-3	6	-2	$\sqrt{1/33}$
131	1	-2	1	-1	$-\sqrt{5/28}$
132	1	-2	2	-1	$-\sqrt{5/28}$
133	1	-2	4	-1	$\sqrt{16/77}$
134	1	-2	5	-1	$-\sqrt{9/28}$
135	1	-2	6	-1	$\sqrt{5/44}$
136	1	-1	0	0	$\sqrt{1/28}$
137	1	-1	1	0	$-\sqrt{3/28}$
138	1	-1	2	0	$\sqrt{25/84}$
139	1	-1	3	0	$-\sqrt{1/6}$
140	1	-1	4	0	$\sqrt{15/77}$
141	1	-1	5	0	$-\sqrt{5/84}$
142	1	-1	6	0	$\sqrt{75/308}$
143	1	0	1	1	$\sqrt{3/14}$
144	1	0	2	1	$\sqrt{1/42}$
145	1	0	3	1	$-\sqrt{1/6}$
146	1	0	4	1	$-\sqrt{15/154}$
147	1	0	5	1	$\sqrt{5/42}$
148	1	0	6	1	$\sqrt{25/66}$
149	1	1	2	2	$\sqrt{2/7}$
150	1	1	4	2	$-\sqrt{20/77}$
151	1	1	6	2	$\sqrt{5/11}$
152	1	2	3	3	$\sqrt{1/3}$
153	1	2	4	3	$-\sqrt{1/11}$
154	1	2	5	3	$-\sqrt{1/6}$
155	1	2	6	3	$\sqrt{9/22}$
156	1	3	3	4	$\sqrt{3/11}$
157	1	3	4	4	$-\sqrt{1/2}$
158	1	3	5	4	$\sqrt{5/28}$
159	1	3	6	4	$\sqrt{5/22}$
160	2	-3	2	-1	$\sqrt{25/84}$
161	2	-3	3	-1	$\sqrt{1/3}$
162	2	-3	4	-1	$\sqrt{15/77}$
163	2	-3	5	-1	$\sqrt{5/84}$
164	2	-3	6	-1	$\sqrt{1/132}$
165	2	-2	0	0	$-\sqrt{1/7}$
166	2	-2	1	0	$\sqrt{1/6}$
167	2	-2	3	0	$\sqrt{7/22}$
168	2	-2	4	0	$\sqrt{1/21}$
169	2	-2	5	0	$\sqrt{1/77}$
170	2	-2	6	0	$\sqrt{5/77}$
171	2	-1	1	1	$-\sqrt{5/28}$
172	2	-1	2	1	$-\sqrt{5/28}$
173	2	-1	4	1	$\sqrt{16/77}$
174	2	-1	5	1	$\sqrt{9/28}$
175	2	-1	6	1	$\sqrt{5/44}$
176	2	0	2	2	$-\sqrt{5/21}$
177	2	0	3	2	$-\sqrt{1/6}$
178	2	0	4	2	$\sqrt{3/154}$
179	2	0	5	2	$\sqrt{1/3}$
180	2	0	6	2	$\sqrt{8/33}$
181	2	1	3	3	$-\sqrt{1/3}$
182	2	1	4	3	$-\sqrt{1/11}$
183	2	1	5	3	$\sqrt{1/6}$
184	2	1	6	3	$\sqrt{9/22}$
185	2	2	4	4	$-\sqrt{5/11}$
186	2	2	6	4	$\sqrt{6/11}$
187	2	3	5	5	$-\sqrt{1/2}$
188	2	3	6	5	$\sqrt{1/2}$
189	3	-3	0	0	$\sqrt{1/7}$
190	3	-3	1	0	$\sqrt{9/28}$
191	3	-3	2	0	$\sqrt{25/84}$
192	3	-3	3	0	$\sqrt{1/6}$
193	3	-3	4	0	$\sqrt{9/154}$
194	3	-3	5	0	$\sqrt{1/84}$
195	3	-3	6	0	$\sqrt{1/924}$
196	3	-2	1	1	$\sqrt{3/28}$
197	3	-2	2	1	$\sqrt{25/84}$
198	3	-2	3	1	$\sqrt{1/3}$
199	3	-2	4	1	$\sqrt{15/77}$
200	3	-2	5	1	$-\sqrt{5/84}$
201	3	-2	6	1	$\sqrt{1/132}$
202	3	-1	2	2	$\sqrt{5/42}$
203	3	-1	3	2	$\sqrt{1/3}$
204	3	-1	4	2	$\sqrt{27/77}$
205	3	-1	5	2	$\sqrt{1/6}$
206	3	-1	6	2	$\sqrt{1/33}$
207	3	0	3	3	$\sqrt{1/6}$
208	3	0	4	3	$\sqrt{9/22}$
209	3	0	5	3	$\sqrt{1/3}$
210	3	0	6	3	$\sqrt{1/11}$
211	3	1	4	4	$\sqrt{3/11}$
212	3	1	5	4	$\sqrt{1/2}$
213	3	1	6	4	$\sqrt{5/22}$
214	3	2	5	5	$\sqrt{1/2}$
215	3	2	6	5	$\sqrt{1/2}$
216	3	3	6	6	1

Table 25: $[j_1 \otimes j_2 = 7/2 \otimes 2]$

15	-5/2	2	11/2	-3/2	$\sqrt{1/330}$
16	-5/2	-2	9/2	-9/2	$\sqrt{4/11}$
17	-5/2	-2	11/2	-9/2	$\sqrt{7/11}$
18	-5/2	-1	7/2	-7/2	$-\sqrt{2/5}$
19	-5/2	-1	9/2	-7/2	$-\sqrt{1/11}$
20	-5/2	-1	11/2	-7/2	$\sqrt{28/55}$
21	-5/2	0	5/2	-5/2	$\sqrt{5/14}$
22	-5/2	0	7/2	-5/2	$\sqrt{1/105}$
23	-5/2	0	9/2	-5/2	$-\sqrt{25/66}$
24	-5/2	0	11/2	-5/2	$\sqrt{14/55}$
25	-5/2	1	3/2	-3/2	$-\sqrt{2/7}$
26	-5/2	1	5/2	-3/2	$-\sqrt{1/84}$
27	-5/2	1	7/2	-3/2	$-\sqrt{289/924}$
28	-5/2	1	9/2	-3/2	$-\sqrt{14/165}$
29	-5/2	1	11/2	-3/2	$\sqrt{3/14}$
30	-5/2	2	3/2	-1/2	$\sqrt{8/21}$
31	-5/2	2	5/2	-1/2	$-\sqrt{8/77}$
32	-5/2	2	7/2	-1/2	$\sqrt{2/7}$
33	-5/2	2	9/2	-1/2	$-\sqrt{8/77}$
34	-5/2	2	11/2	-1/2	$\sqrt{1/66}$
35	-3/2	-2	7/2	-7/2	$\sqrt{2/15}$
37	-3/2	-2	9/2	-7/2	$\sqrt{16/33}$
37	-3/2	-2	11/2	-7/2	$\sqrt{21/55}$
38	-3/2	-1	5/2	-5/2	$-\sqrt{5/28}$
39	-3/2	-1	7/2	-5/2	$-\sqrt{32/105}$
40	-3/2	-1	9/2	-5/2	$\sqrt{1/132}$
41	-3/2	-1	11/2	-5/2	$\sqrt{28/55}$
42	-3/2	0	3/2	-3/2	$\sqrt{1/7}$
43	-3/2	0	5/2	-3/2	$\sqrt{3/14}$
44	-3/2	0	7/2	-3/2	$-\sqrt{3/35}$
45	-3/2	0	9/2	-3/2	$-\sqrt{27/154}$
46	-3/2	0	11/2	-3/2	$\sqrt{21/55}$
47	-3/2	1	3/2	-1/2	$-\sqrt{2/7}$
48	-3/2	1	5/2	-1/2	$\sqrt{1/14}$
49	-3/2	1	7/2	-1/2	$\sqrt{2/21}$
50	-3/2	1	9/2	-1/2	$-\sqrt{169/462}$
51	-3/2	1	11/2	-1/2	$\sqrt{2/11}$
52	-3/2	2	3/2	1/2	$\sqrt{1/14}$
53	-3/2	2	5/2	1/2	$-\sqrt{2/7}$
54	-3/2	2	7/2	1/2	$\sqrt{8/21}$
55	-3/2	2	9/2	1/2	$-\sqrt{50/231}$
56	-3/2	2	11/2	1/2	$\sqrt{1/22}$
57	-1/2	-2	5/2	-5/2	$\sqrt{1/70}$
58	-1/2	-2	7/2	-5/2	$\sqrt{2/7}$
59	-1/2	-2	9/2	-5/2	$\sqrt{5/11}$
60	-1/2	-2	11/2	-5/2	$\sqrt{7/33}$
61	-1/2	-1	3/2	-3/2	$-\sqrt{2/35}$
62	-1/2	-1	5/2	-3/2	$-\sqrt{121/420}$
63	-1/2	-1	7/2	-3/2	$-\sqrt{2/21}$
64	-1/2	-1	9/2	-3/2	$\sqrt{125/924}$
65	-1/2	-1	11/2	-3/2	$\sqrt{14/33}$
66	-1/2	0	3/2	-1/2	$\sqrt{9/35}$
67	-1/2	0	5/2	-1/2	$\sqrt{1/35}$
68	-1/2	0	7/2	-1/2	$-\sqrt{5/21}$
69	-1/2	0	9/2	-1/2	$-\sqrt{65/231}$
70	-1/2	0	11/2	-1/2	$\sqrt{5/31}$
71	-1/2	1	3/2	1/2	$-\sqrt{6/35}$
72	-1/2	1	5/2	1/2	$\sqrt{7/30}$
73	-1/2	1	7/2	1/2	$-\sqrt{45/154}$
74	-1/2	1	9/2	1/2	$\sqrt{10/33}$
75	-1/2	1	11/2	1/2	$-\sqrt{1/70}$
76	-1/2	2	3/2	3/2	$\sqrt{16/105}$
77	-1/2	2	5/2	3/2	$\sqrt{8/21}$
78	-1/2	2	7/2	3/2	$-\sqrt{80/231}$
79	-1/2	2	9/2	3/2	$\sqrt{7/66}$
80	1/2	-2	3/2	-3/2	$\sqrt{1/70}$
81	1/2	-2	5/2	-3/2	$\sqrt{16/105}$
82	1/2	-2	7/2	-3/2	$\sqrt{8/21}$
83	1/2	-2	9/2	-3/2	$\sqrt{80/231}$
84	1/2	-2	11/2	-3/2	$\sqrt{7/66}$
85	1/2	-1	3/2	-1/2	$-\sqrt{6/35}$
86	1/2	-1	5/2	-1/2	$-\sqrt{7/30}$
87	1/2	-1	7/2	-1/2	$\sqrt{45/154}$
88	1/2	-1	9/2	-1/2	$\sqrt{10/33}$
89	1/2	0	3/2	1/2	$\sqrt{9/35}$
90	1/2	0	5/2	1/2	$-\sqrt{1/35}$
91	1/2	0	7/2	1/2	$-\sqrt{5/21}$
92	1/2	0	9/2	1/2	$\sqrt{5/231}$
93	1/2	0	11/2	1/2	$\sqrt{5/31}$
94	1/2	1	3/2	3/2	$-\sqrt{2/35}$
95	1/2	1	5/2	3/2	$\sqrt{121/420}$
96	1/2	1	7/2	3/2	$-\sqrt{2/21}$
97	1/2	1	9/2	3/2	$\sqrt{125/924}$
98	1/2	1	11/2	3/2	$\sqrt{14/33}$
99	1/2	2	5/2	5/2	$-\sqrt{1/21}$
100	1/2	2	7/2	5/2	$\sqrt{2/7}$
101	1/2	2	9/2	5/2	$-\sqrt{5/31}$
102	1/2	2	11/2	5/2	$\sqrt{7/33}$
103	3/2	-2	3/2	-1/2	$\sqrt{1/14}$
104	3/2	-2	5/2	-1/2	$\sqrt{2/7}$
105	3/2	-2	7/2	-1/2	$\sqrt{8/21}$
106	3/2	-2	9/2	-1/2	$\sqrt{50/231}$
107	3/2	-2	11/2	-1/2	$\sqrt{1/22}$
108	3/2	-1	3/2	1/2	$-\sqrt{2/7}$
109	3/2	-1	5/2	1/2	$-\sqrt{1/14}$
110	3/2	-1	7/2	1/2	$\sqrt{2/21}$
111	3/2	-1	9/2	1/2	$\sqrt{169/462}$
112	3/2	-1	11/2	1/2	$\sqrt{2/11}$
113	3/2	0	3/2	3/2	$\sqrt{1/7}$
114	3/2	0	5/2	3/2	$-\sqrt{5/14}$
115	3/2	0	7/2	3/2	$-\sqrt{3/35}$
116	3/2	0	9/2	3/2	$\sqrt{27/154}$
117	3/2	0	11/2	3/2	$\sqrt{21/55}$
118	3/2	1	5/2	5/2	$\sqrt{5/28}$
119	3/2	1	7/2	5/2	$-\sqrt{32/105}$
120	3/2	1	9/2	5/2	$-\sqrt{1/132}$
121	3/2	1	11/2	5/2	$\sqrt{28/55}$
122	3/2	2	7/2	7/2	$\sqrt{2/15}$
123	3/2	2	9/2	7/2	$-\sqrt{16/33}$
124	3/2	2	11/2	7/2	$\sqrt{21/55}$
125	5/2	-2	3/2	1/2	$\sqrt{3/14}$
126	5/2	-2	5/2	1/2	$\sqrt{8/21}$
127	5/2	-2	7/2	1/2	$\sqrt{2/7}$
128	5/2	-2	9/2	1/2	$\sqrt{8/77}$
129	5/2	-2	11/2	1/2	$\sqrt{1/66}$
130	5/2	-1	3/2	3/2	$-\sqrt{2/7}$
131	5/2	-1	5/2	3/2	$\sqrt{1/84}$
132	5/2	-1	7/2	3/2	$\sqrt{32/105}$
133	5/2	-1	9/2	3/2	$\sqrt{289/924}$
134	5/2	-1	11/2	3/2	$\sqrt{14/165}$
135	5/2	0	5/2	5/2	$-\sqrt{5/14}$
136	5/2	0	7/2	5/2	$\sqrt{1/105}$
137	5/2	0	9/2	5/2	$\sqrt{25/66}$
138	5/2	0	11/2	5/2	$\sqrt{14/55}$
139	5/2	1	7/2	7/2	$-\sqrt{2/5}$
140	5/2	1	9/2	7/2	$\sqrt{1/11}$
141	5/2	1	11/2	7/2	$\sqrt{28/55}$
142	5/2	2	3/2	9/2	$-\sqrt{4/11}$
143	5/2	2	5/2	9/2	$\sqrt{7/11}$
144	5/2	2	7/2	9/2	$\sqrt{1/2}$
145	7/2	-2	5/2	3/2	$\sqrt{1/3}$
146	7/2	-2	7/2	3/2	$\sqrt{2/15}$
147	7/2	-2	9/2	3/2	$\sqrt{1/33}$
148	7/2	-2	11/2	3/2	$\sqrt{1/330}$
149	7/2	-1	5/2	5/2	$\sqrt{5/12}$
150	7/2	-1	7/2	5/2	$\sqrt{2/5}$
151	7/2	-1	9/2	5/2	$\sqrt{7/44}$
152	7/2	-1	11/2	5/2	$\sqrt{4/165}$
153	7/2	0	7/2	7/2	$\sqrt{7/15}$
154	7/2	0	9/2	7/2	$\sqrt{14/33}$
155	7/2	0	11/2	7/2	$\sqrt{6/55}$
156	7/2	1	9/2	9/2	$\sqrt{7/11}$
157	7/2	1	11/2	9/2	$\sqrt{4/11}$
158	7/2	2	11/2	11/2	1

Table 26: $[j_1 \otimes j_2 = 7/2 \otimes 5/2]$					
	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-7/2	-5/2	6	-6	$-\sqrt{1/12}$
2	-7/2	-3/2	5	-5	$-\sqrt{7/12}$
3	-7/2	-3/2	6	-5	$\sqrt{5/12}$
4	-7/2	-1/2	4	-4	$\sqrt{21/55}$
5	-7/2	-1/2	5	-4	$-\sqrt{7/15}$
6	-7/2	1/2	6	-4	$\sqrt{3/33}$
7	-7/2	1/2	3	-3	$\sqrt{5/24}$
8	-7/2	1/2	4	-3	$\sqrt{189/440}$
9	-7/2	1/2	5	-3	$\sqrt{7/30}$
10	-7/2	1/2	6	-3	$\sqrt{1/22}$
11	-7/2	3/2	2	-2	$\sqrt{5/18}$
12	-7/2	3/2	3	-2	$\sqrt{7/18}$
13	-7/2	3/2	4	-2	$\sqrt{27/110}$
14	-7/2	3/2	5	-2	$\sqrt{7/90}$
15	-7/2	3/2	6	-2	$\sqrt{1/99}$
16	-7/2	5/2	1	-1	$\sqrt{3/8}$
17	-7/2	5/2	2	-1	$\sqrt{25/72}$
18	-7/2	5/2	3	-1	$\sqrt{7/36}$
19	-7/2	5/2	4	-1	$\sqrt{3/44}$
20	-7/2	5/2	5	-1	$\sqrt{1/72}$
21	-7/2	5/2	6	-1	$\sqrt{7/99}$
22	-5/2	-5/2	5	-5	$\sqrt{5/12}$
23	-5/2	-3/2	4	-4	$-\sqrt{24/55}$
24	-5/2	-3/2	5	-4	$-\sqrt{1/30}$
25	-5/2	-3/2	6	-4	$\sqrt{35/66}$
26	-5/2	-1/2	3	-3	$\sqrt{3/8}$
27	-5/2	-1/2	4	-3	$\sqrt{3/440}$
28	-5/2	-1/2	5	-3	$-\sqrt{3/10}$
29	-5/2	-1/2	6	-3	$\sqrt{2/63}$
30	-5/2	1/2	6	-3	$\sqrt{20/99}$
31	-5/2	1/2	2	-2	$-\sqrt{2/21}$
32	-5/2	1/2	3	-2	$\sqrt{1/36}$
33	-5/2	1/2	4	-2	$\sqrt{243/1540}$
34	-5/2	1/2	5	-2	$-\sqrt{16/45}$
35	-5/2	1/2	6	-2	$\sqrt{1/99}$
36	-5/2	3/2	1	-1	$\sqrt{15/56}$
37	-5/2	3/2	2	-1	$-\sqrt{5/504}$
38	-5/2	3/2	3	-1	$-\sqrt{5/66}$
39	-5/2	3/2	4	-1	$\sqrt{507/5540}$
40	-5/2	3/2	5	-1	$-\sqrt{529/2540}$
41	-5/2	3/2	6	-1	$\sqrt{35/792}$
42	-5/2	5/2	1	0	$\sqrt{3/28}$
43	-5/2	5/2	2	0	$\sqrt{35/84}$
44	-5/2	5/2	3	0	$\sqrt{1/3}$

Table 28: $[j_1 \otimes j_2 = 7/2 \otimes 7/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-7/2	-7/2	7	-7	1
2	-7/2	-5/2	6	-6	$-\sqrt{1/2}$
3	-7/2	-3/2	5	-5	$\sqrt{1/2}$
4	-7/2	-3/2	5	-5	$\sqrt{7/26}$
5	-7/2	-3/2	6	-5	$-\sqrt{3/2}$
6	-7/2	-3/2	7	-5	$\sqrt{3/13}$
7	-7/2	-1/2	4	-4	$-\sqrt{7/44}$
8	-7/2	-1/2	5	-4	$\sqrt{21/52}$
9	-7/2	-1/2	6	-4	$-\sqrt{15/44}$
10	-7/2	-1/2	7	-4	$\sqrt{5/52}$
11	-7/2	1/2	3	-3	$\sqrt{7/66}$
12	-7/2	1/2	4	-3	$-\sqrt{7/22}$
13	-7/2	1/2	5	-3	$-\sqrt{14/39}$
14	-7/2	1/2	6	-3	$-\sqrt{2/11}$
15	-7/2	1/2	7	-3	$\sqrt{5/143}$
16	-7/2	3/2	2	-2	$-\sqrt{1/12}$
17	-7/2	3/2	3	-2	$\sqrt{35/132}$
18	-7/2	3/2	4	-2	$-\sqrt{15/44}$
19	-7/2	3/2	5	-2	$\sqrt{35/156}$
20	-7/2	3/2	6	-2	$-\sqrt{5/66}$
21	-7/2	3/2	7	-2	$\sqrt{3/286}$
22	-7/2	5/2	1	-1	$\sqrt{1/12}$
23	-7/2	5/2	2	-1	$-\sqrt{1/4}$
24	-7/2	5/2	3	-1	$\sqrt{7/22}$
25	-7/2	5/2	4	-1	$-\sqrt{5/22}$
26	-7/2	5/2	5	-1	$\sqrt{5/92}$
27	-7/2	5/2	6	-1	$-\sqrt{1/44}$
28	-7/2	5/2	7	-1	$\sqrt{1/429}$
29	-7/2	7/2	0	0	$-\sqrt{1/8}$
30	-7/2	7/2	1	0	$\sqrt{7/24}$
31	-7/2	7/2	2	0	$\sqrt{49/264}$
32	-7/2	7/2	3	0	$-\sqrt{1/88}$
33	-7/2	7/2	4	0	$\sqrt{7/312}$
34	-7/2	7/2	5	0	$-\sqrt{1/264}$
35	-7/2	7/2	6	0	$\sqrt{1/3432}$
36	-7/2	7/2	7	0	$\sqrt{1/2}$
37	-5/2	-7/2	6	-6	$\sqrt{1/2}$
38	-5/2	-7/2	7	-6	$-\sqrt{6/13}$
39	-5/2	-5/2	5	-5	$\sqrt{7/13}$
40	-5/2	-5/2	7	-5	$\sqrt{15/44}$
41	-5/2	-3/2	4	-4	$-\sqrt{5/52}$
42	-5/2	-3/2	5	-4	$-\sqrt{7/44}$
43	-5/2	-3/2	6	-4	$-\sqrt{21/52}$
44	-5/2	-3/2	7	-4	$-\sqrt{8/33}$
45	-5/2	-1/2	3	-3	$\sqrt{2/11}$
46	-5/2	-1/2	4	-3	$\sqrt{1/78}$
47	-5/2	-1/2	5	-3	$-\sqrt{7/22}$
48	-5/2	-1/2	6	-3	$\sqrt{35/143}$
49	-5/2	-1/2	7	-3	$-\sqrt{5/28}$
50	-5/2	1/2	2	-2	$-\sqrt{9/44}$
51	-5/2	1/2	3	-2	$\sqrt{1/308}$
52	-5/2	1/2	4	-2	$\sqrt{5/92}$
53	-5/2	1/2	5	-2	$-\sqrt{7/22}$
54	-5/2	1/2	6	-2	$-\sqrt{35/286}$
55	-5/2	1/2	7	-2	$-\sqrt{1/7}$
56	-5/2	3/2	1	-1	$\sqrt{4/21}$
57	-5/2	3/2	2	-1	$-\sqrt{1/66}$
58	-5/2	3/2	3	-1	$-\sqrt{15/154}$
59	-5/2	3/2	4	-1	$-\sqrt{80/273}$
60	-5/2	3/2	5	-1	$-\sqrt{7/23}$
61	-5/2	3/2	6	-1	$\sqrt{7/143}$
62	-5/2	3/2	7	-1	$\sqrt{1/8}$
63	-5/2	5/2	0	0	$-\sqrt{25/168}$
64	-5/2	5/2	1	0	$-\sqrt{1/168}$
65	-5/2	5/2	2	0	$\sqrt{25/264}$
66	-5/2	5/2	3	0	$\sqrt{169/616}$
67	-5/2	5/2	4	0	$\sqrt{529/2184}$
68	-5/2	5/2	5	0	$-\sqrt{25/264}$
69	-5/2	5/2	6	0	$\sqrt{49/3432}$
70	-5/2	5/2	7	0	$\sqrt{1/2}$
71	-5/2	7/2	1	1	$\sqrt{1/12}$
72	-5/2	7/2	2	1	$-\sqrt{1/4}$
73	-5/2	7/2	3	1	$\sqrt{7/22}$
74	-5/2	7/2	4	1	$-\sqrt{5/22}$
75	-5/2	7/2	5	1	$\sqrt{5/52}$
76	-5/2	7/2	6	1	$-\sqrt{1/44}$
77	-5/2	7/2	7	1	$\sqrt{1/429}$
78	-3/2	-7/2	5	-5	$\sqrt{7/26}$
79	-3/2	-7/2	6	-5	$\sqrt{3/13}$
80	-3/2	-7/2	7	-5	$\sqrt{15/44}$
81	-3/2	-5/2	4	-4	$-\sqrt{5/52}$
82	-3/2	-5/2	5	-4	$-\sqrt{7/44}$
83	-3/2	-5/2	6	-4	$-\sqrt{21/52}$
84	-3/2	-5/2	7	-4	$-\sqrt{10/33}$
85	-3/2	-3/2	3	-3	$\sqrt{2/11}$
86	-3/2	-3/2	5	-3	$-\sqrt{10/39}$
87	-3/2	-3/2	7	-3	$\sqrt{63/143}$
88	-3/2	-1/2	2	-2	$-\sqrt{5/21}$
89	-3/2	-1/2	3	-2	$\sqrt{1/33}$
90	-3/2	-1/2	4	-2	$\sqrt{12/77}$
91	-3/2	-1/2	5	-2	$-\sqrt{4/39}$
92	-3/2	-1/2	6	-2	$-\sqrt{7/66}$
93	-3/2	-1/2	7	-2	$\sqrt{105/286}$
94	-3/2	1/2	1	-1	$\sqrt{5/28}$
95	-3/2	1/2	2	-1	$-\sqrt{5/84}$
96	-3/2	1/2	3	-1	$-\sqrt{5/66}$
97	-3/2	1/2	4	-1	$\sqrt{27/154}$
98	-3/2	1/2	5	-1	$\sqrt{1/1092}$
99	-3/2	1/2	6	-1	$\sqrt{35/132}$
100	-3/2	1/2	7	-1	$-\sqrt{1/8}$
101	-3/2	3/2	0	0	$\sqrt{3/56}$
102	-3/2	3/2	1	0	$\sqrt{5/66}$
103	-3/2	3/2	2	0	$-\sqrt{49/264}$
104	-3/2	3/2	3	0	$\sqrt{9/616}$
105	-3/2	3/2	4	0	$\sqrt{289/2184}$
106	-3/2	3/2	5	0	$-\sqrt{27/88}$
107	-3/2	3/2	6	0	$\sqrt{147/1144}$
108	-3/2	3/2	7	0	$-\sqrt{1/7}$
109	-3/2	5/2	1	1	$\sqrt{4/21}$
110	-3/2	5/2	2	1	$-\sqrt{1/66}$
111	-3/2	5/2	3	1	$-\sqrt{15/154}$
112	-3/2	5/2	4	1	$-\sqrt{80/273}$
113	-3/2	5/2	5	1	$-\sqrt{7/33}$
114	-3/2	5/2	6	1	$\sqrt{7/143}$
115	-3/2	5/2	7	1	$-\sqrt{1/12}$
116	-3/2	7/2	2	2	$-\sqrt{1/4}$
117	-3/2	7/2	3	2	$\sqrt{35/132}$
118	-3/2	7/2	4	2	$-\sqrt{15/44}$
119	-3/2	7/2	5	2	$\sqrt{35/156}$
120	-3/2	7/2	6	2	$-\sqrt{5/66}$
121	-3/2	7/2	7	2	$\sqrt{3/286}$
122	-1/2	-7/2	4	-4	$\sqrt{7/44}$
123	-1/2	-7/2	5	-4	$\sqrt{21/52}$
124	-1/2	-7/2	6	-4	$\sqrt{15/44}$
125	-1/2	-7/2	7	-4	$\sqrt{5/52}$
126	-1/2	-5/2	3	-3	$-\sqrt{8/33}$
127	-1/2	-5/2	4	-3	$-\sqrt{2/11}$
128	-1/2	-5/2	5	-3	$\sqrt{1/78}$
129	-1/2	-5/2	6	-3	$\sqrt{7/22}$
130	-1/2	-5/2	7	-3	$\sqrt{35/143}$
131	-1/2	-3/2	2	-2	$\sqrt{5/21}$
132	-1/2	-3/2	3	-2	$-\sqrt{1/33}$
133	-1/2	-3/2	4	-2	$-\sqrt{12/77}$
134	-1/2	-3/2	5	-2	$-\sqrt{4/39}$
135	-1/2	-3/2	6	-2	$\sqrt{7/66}$
136	-1/2	-3/2	7	-2	$\sqrt{105/286}$
137	-1/2	-1/2	1	-1	$-\sqrt{4/21}$
138	-1/2	-1/2	2	-1	$\sqrt{2/11}$
139	-1/2	-1/2	3	-1	$-\sqrt{20/91}$
140	-1/2	-1/2	4	-1	$\sqrt{175/429}$
141	-1/2	1/2	0	0	$\sqrt{1/8}$
142	-1/2	1/2	1	0	$-\sqrt{1/168}$
143	-1/2	1/2	2	0	$-\sqrt{25/168}$
144	-1/2	1/2	3	0	$\sqrt{3/88}$
145	-1/2	1/2	4	0	$\sqrt{81/616}$
146	-1/2	1/2	5	0	$\sqrt{75/728}$
147	-1/2	1/2	6	0	$\sqrt{25/264}$
148	-1/2	1/2	7	0	$\sqrt{308/1031}$
149	-1/2	3/2	1	1	$\sqrt{5/28}$
150	-1/2	3/2	2	1	$-\sqrt{5/84}$
151	-1/2	3/2	3	1	$-\sqrt{5/66}$
152	-1/2	3/2	4	1	$\sqrt{27/154}$
153	-1/2	3/2	5	1	$\sqrt{1/1092}$
154	-1/2	3/2	6	1	$-\sqrt{35/132}$
155	-1/2	3/2	7	1	$\sqrt{35/143}$
156	-1/2	5/2	2	2	$\sqrt{5/28}$
157	-1/2	5/2	3	2	$-\sqrt{9/44}$
158	-1/2	5/2	4	2	$\sqrt{1/308}$
159	-1/2	5/2	5	2	$\sqrt{9/52}$
160	-1/2	5/2	6	2	$-\sqrt{7/22}$
161	-1/2	5/2	7	2	$\sqrt{35/286}$
162	-1/2	7/2	3	3	$\sqrt{7/66}$
163	-1/2	7/2	5	3	$-\sqrt{7/22}$
164	-1/2	7/2	6	3	$\sqrt{14/39}$
165	-1/2	7/2	7	3	$-\sqrt{2/11}$
166	-1/2	7/2	7	3	$\sqrt{5/143}$
167	-1/2	-7/2	3	-3	$\sqrt{7/66}$
168	1/2	-7/2	4	-3	$\sqrt{7/22}$
169	1/2	-7/2	5	-3	$\sqrt{14/39}$
170	1/2	-7/2	6	-3	$\sqrt{2/11}$
171	1/2	-7/2	7	-3	$\sqrt{5/143}$
172	1/2	-5/2	2	-2	$-\sqrt{5/28}$
173	1/2	-5/2	3	-2	$-\sqrt{9/44}$
174	1/2	-5/2	4	-2	$-\sqrt{1/308}$
175	1/2	-5/2	5	-2	$\sqrt{9/52}$
176	1/2	-5/2	6	-2	$\sqrt{7/22}$
177	1/2	-5/2	7	-2	$\sqrt{35/286}$
178	1/2	-3/2	1	-1	$\sqrt{5/28}$
179	1/2	-3/2	2	-1	$-\sqrt{5/84}$
180	1/2	-3/2	3	-1	$-\sqrt{5/66}$
181	1/2	-3/2	4	-1	$\sqrt{27/154}$
182	1/2	-3/2	5	-1	$\sqrt{1/1092}$
183	1/2	-3/2	6	-1	$\sqrt{35/132}$
184	1/2	-3/2	7	-1	$\sqrt{35/143}$
185	1/2	-1/2	0	0	$-\sqrt{1/8}$
186	1/2	-1/2	1	0	$-\sqrt{1/168}$
187	1/2	-1/2	2	0	$\sqrt{25/168}$
188	1/2	-1/2	3	0	$\sqrt{3/88}$
189	1/2	-1/2	4	0	$\sqrt{81/616}$
190	1/2	-1/2	5	0	$\sqrt{75/728}$
191	1/2	-1/2	6	0	$\sqrt{25/264}$
192	1/2	-1/2	7	0	$\sqrt{308/1031}$
193	1/2	1/2	1	1	$-\sqrt{4/21}$
194	1/2	1/2	2	1	$\sqrt{2/11}$
195	1/2	1/2	3	1	$-\sqrt{20/91}$
196	1/2	1/2	4	1	$\sqrt{175/429}$
197	1/2	3/2	2	2	$-\sqrt{5/21}$
198	1/2	3/2	3	2	$\sqrt{1/33}$
199	1/2	3/2	4	2	$\sqrt{12/77}$
200	1/2	3/2	5	2	$-\sqrt{4/39}$
201	1/2	3/2	6	2	$-\sqrt{7/66}$
202	1/2	3/2	7	2	$\sqrt{105/286}$
203	1/2	5/2	3	3	$-\sqrt{8/33}$
204	1/2	5/2	4	3	$\sqrt{2/11}$
205	1/2	5/2	5	3	$\sqrt{1/78}$
206	1/2	5/2	6	3	$-\sqrt{7/22}$
207	1/2	5/2	7	3	$\sqrt{35/143}$
208	1/2	7/2	2	4	$-\sqrt{7/44}$
209	1/2	7/2	5	4	$\sqrt{21/52}$
210	1/2	7/2	6	4	$-\sqrt{15/44}$
211	1/2	7/2	7	4	$\sqrt{5/52}$
212	3/2	-7/2	2	-2	$\sqrt{1/12}$
213	3/2	-7/2	3	-2	$\sqrt{35/132}$
214	3/2	-7/2	4	-2	$\sqrt{15/44}$
215	3/2	-7/2	5	-2	$\sqrt{35/156}$
216	3/2	-7/2	6	-2	$\sqrt{5/66}$ </

Table 31: $[j_1 \otimes j_2 = 4 \otimes 3/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-4	-3/2	11/2	-11/2	1
2	-4	-1/2	9/2	-9/2	$-\sqrt{5/11}$
3	-4	-1/2	13/2	-9/2	$\sqrt{3/11}$
4	-4	1/2	7/2	-7/2	$\sqrt{28/45}$
5	-4	1/2	9/2	-7/2	$-\sqrt{32/99}$
6	-4	1/2	11/2	-7/2	$\sqrt{3/55}$
7	-4	3/2	5/2	-5/2	$-\sqrt{2/3}$
8	-4	3/2	7/2	-5/2	$\sqrt{4/15}$
9	-4	3/2	9/2	-5/2	$-\sqrt{2/33}$
10	-4	3/2	11/2	-5/2	$\sqrt{1/165}$
11	-3	-3/2	9/2	-9/2	$\sqrt{3/11}$
12	-3	-3/2	11/2	-9/2	$\sqrt{8/11}$
13	-3	-1/2	7/2	-7/2	$-\sqrt{14/45}$
14	-3	-1/2	9/2	-7/2	$-\sqrt{25/99}$
15	-3	-1/2	11/2	-7/2	$-\sqrt{24/55}$
16	-3	1/2	5/2	-5/2	$\sqrt{1/4}$
17	-3	1/2	7/2	-5/2	$\sqrt{8/45}$
18	-3	1/2	9/2	-5/2	$-\sqrt{169/396}$
19	-3	1/2	11/2	-5/2	$\sqrt{8/55}$
20	-3	3/2	5/2	-3/2	$-\sqrt{5/12}$
21	-3	3/2	7/2	-3/2	$\sqrt{2/5}$
22	-3	3/2	9/2	-3/2	$-\sqrt{7/44}$
23	-3	3/2	11/2	-3/2	$\sqrt{4/165}$
24	-2	-3/2	7/2	-7/2	$\sqrt{1/15}$
25	-2	-3/2	9/2	-7/2	$\sqrt{14/33}$
26	-2	-3/2	11/2	-7/2	$\sqrt{28/55}$
27	-2	-1/2	5/2	-5/2	$-\sqrt{1/14}$
28	-2	-1/2	7/2	-5/2	$-\sqrt{121/315}$
29	-2	-1/2	9/2	-5/2	$-\sqrt{7/198}$
30	-2	-1/2	11/2	-5/2	$\sqrt{28/55}$
31	-2	1/2	5/2	-3/2	$\sqrt{5/14}$
32	-2	1/2	7/2	-3/2	$\sqrt{1/105}$
33	-2	1/2	9/2	-3/2	$-\sqrt{25/66}$
34	-2	1/2	11/2	-3/2	$\sqrt{14/55}$
35	-2	3/2	5/2	-1/2	$-\sqrt{5/21}$
36	-2	3/2	7/2	-1/2	$\sqrt{3/7}$
37	-2	3/2	9/2	-1/2	$-\sqrt{3/11}$
38	-2	3/2	11/2	-1/2	$\sqrt{2/33}$
39	-1	-3/2	5/2	-5/2	$\sqrt{1/84}$
40	-1	-3/2	7/2	-5/2	$\sqrt{6/35}$
41	-1	-3/2	9/2	-5/2	$\sqrt{21/44}$
42	-1	-3/2	11/2	-5/2	$\sqrt{56/165}$
43	-1	-1/2	5/2	-3/2	$-\sqrt{5/38}$
44	-1	-1/2	7/2	-3/2	$-\sqrt{32/105}$
45	-1	-1/2	9/2	-3/2	$\sqrt{1/132}$
46	-1	-1/2	11/2	-3/2	$\sqrt{28/55}$
47	-1	1/2	5/2	-1/2	$\sqrt{5/14}$
48	-1	1/2	7/2	-1/2	$-\sqrt{2/63}$
49	-1	1/2	9/2	-1/2	$-\sqrt{49/198}$
50	-1	1/2	11/2	-1/2	$\sqrt{4/11}$
51	-1	3/2	5/2	1/2	$-\sqrt{5/42}$
52	-1	3/2	7/2	1/2	$\sqrt{8/21}$
53	-1	3/2	9/2	1/2	$\sqrt{35/66}$
54	-1	3/2	11/2	1/2	$\sqrt{4/33}$
55	0	-3/2	5/2	-3/2	$\sqrt{1/21}$
56	0	-3/2	7/2	-3/2	$\sqrt{2/7}$
57	0	-3/2	9/2	-3/2	$\sqrt{5/11}$
58	0	-3/2	11/2	-3/2	$\sqrt{7/33}$
59	0	-1/2	5/2	-1/2	$\sqrt{2/7}$
60	0	-1/2	7/2	-1/2	$-\sqrt{10/63}$
61	0	-1/2	9/2	-1/2	$\sqrt{10/99}$
62	0	-1/2	11/2	-1/2	$\sqrt{5/11}$
63	0	1/2	5/2	1/2	$\sqrt{2/7}$
64	0	1/2	7/2	1/2	$-\sqrt{10/63}$
65	0	1/2	9/2	1/2	$-\sqrt{10/99}$
66	0	1/2	11/2	1/2	$\sqrt{5/11}$
67	0	3/2	5/2	3/2	$-\sqrt{1/21}$
68	0	3/2	7/2	3/2	$\sqrt{2/7}$
69	0	3/2	9/2	3/2	$-\sqrt{5/11}$
70	0	3/2	11/2	3/2	$\sqrt{7/33}$
71	1	-3/2	5/2	-1/2	$\sqrt{5/42}$
72	1	-3/2	7/2	-1/2	$\sqrt{8/21}$
73	1	-3/2	9/2	-1/2	$\sqrt{35/66}$
74	1	-3/2	11/2	-1/2	$\sqrt{4/33}$
75	1	-1/2	5/2	1/2	$-\sqrt{5/14}$
76	1	-1/2	7/2	1/2	$-\sqrt{2/63}$
77	1	-1/2	9/2	1/2	$\sqrt{49/198}$
78	1	-1/2	11/2	1/2	$\sqrt{4/11}$
79	1	1/2	5/2	3/2	$\sqrt{5/28}$
80	1	1/2	7/2	3/2	$-\sqrt{32/105}$
81	1	1/2	9/2	3/2	$-\sqrt{1/132}$
82	1	1/2	11/2	3/2	$\sqrt{28/55}$
83	1	3/2	5/2	5/2	$-\sqrt{1/84}$
84	1	3/2	7/2	5/2	$\sqrt{6/35}$
85	1	3/2	9/2	5/2	$-\sqrt{21/44}$
86	1	3/2	11/2	5/2	$\sqrt{56/165}$
87	2	-3/2	5/2	1/2	$\sqrt{5/21}$
88	2	-3/2	7/2	1/2	$\sqrt{3/7}$
89	2	-3/2	9/2	1/2	$\sqrt{3/11}$
90	2	-3/2	11/2	1/2	$\sqrt{2/33}$
91	2	-1/2	5/2	3/2	$-\sqrt{5/14}$
92	2	-1/2	7/2	3/2	$\sqrt{1/105}$
93	2	-1/2	9/2	3/2	$\sqrt{25/66}$
94	2	-1/2	11/2	3/2	$\sqrt{14/55}$
95	2	1/2	5/2	5/2	$\sqrt{1/14}$
96	2	1/2	7/2	5/2	$-\sqrt{121/315}$
97	2	1/2	9/2	5/2	$\sqrt{7/198}$
98	2	1/2	11/2	5/2	$\sqrt{28/55}$
99	2	3/2	7/2	7/2	$\sqrt{1/15}$
100	2	3/2	9/2	7/2	$-\sqrt{14/33}$
101	2	3/2	11/2	7/2	$\sqrt{28/55}$
102	3	-3/2	5/2	3/2	$\sqrt{5/12}$
103	3	-3/2	7/2	3/2	$\sqrt{2/5}$
104	3	-3/2	9/2	3/2	$\sqrt{7/44}$
105	3	-3/2	11/2	3/2	$\sqrt{4/165}$
106	3	-1/2	5/2	5/2	$-\sqrt{1/4}$
107	3	-1/2	7/2	5/2	$\sqrt{8/45}$
108	3	-1/2	9/2	5/2	$-\sqrt{169/396}$
109	3	-1/2	11/2	5/2	$\sqrt{8/55}$
110	3	1/2	7/2	7/2	$-\sqrt{14/45}$
111	3	1/2	9/2	7/2	$\sqrt{25/99}$
112	3	1/2	11/2	7/2	$\sqrt{24/55}$
113	3	3/2	9/2	9/2	$-\sqrt{5/11}$
114	3	3/2	11/2	9/2	$\sqrt{6/11}$
115	4	-3/2	5/2	5/2	$\sqrt{2/3}$
116	4	-3/2	7/2	5/2	$\sqrt{4/15}$
117	4	-3/2	9/2	5/2	$\sqrt{2/33}$
118	4	-3/2	11/2	5/2	$\sqrt{1/165}$
119	4	-1/2	7/2	7/2	$\sqrt{28/45}$
120	4	-1/2	9/2	7/2	$\sqrt{32/99}$
121	4	-1/2	11/2	7/2	$\sqrt{3/55}$
122	4	1/2	9/2	9/2	$\sqrt{8/11}$
123	4	1/2	11/2	9/2	$\sqrt{3/11}$
124	4	3/2	11/2	11/2	1

Table 33: $[j_1 \otimes j_2 = 4 \otimes 5/2]$

	m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-4	-5/2	13/2	-13/2	1
2	-4	-3/2	11/2	-11/2	$-\sqrt{8/13}$
3	-4	-3/2	13/2	-11/2	$\sqrt{5/13}$
4	-4	-1/2	9/2	-9/2	$\sqrt{14/33}$
5	-4	-1/2	11/2	-9/2	$\sqrt{5/39}$
6	-4	1/2	7/2	-7/2	$-\sqrt{56/165}$
7	-4	1/2	9/2	-7/2	$\sqrt{14/33}$
8	-4	1/2	11/2	-7/2	$-\sqrt{144/715}$
9	-4	3/2	5/2	-5/2	$\sqrt{5/143}$
10	-4	3/2	7/2	-5/2	$\sqrt{1/3}$
11	-4	3/2	9/2	-5/2	$-\sqrt{64/165}$
12	-4	3/2	11/2	-5/2	$-\sqrt{7/33}$
13	-4	5/2	13/2	-5/2	$-\sqrt{128/2145}$
14	-4	3/2	13/2	-5/2	$\sqrt{1/43}$
15	-4	5/2	3/2	-3/2	$-\sqrt{4/9}$
16	-4	5/2	5/2	-3/2	$\sqrt{1/3}$
17	-4	5/2	7/2	-3/2	$-\sqrt{16/99}$
18	-4	5/2	9/2	-3/2	$\sqrt{5/99}$
19	-4	5/2	11/2	-3/2	$-\sqrt{4/429}$
20	-4	5/2	13/2	-3/2	$\sqrt{1/1287}$
21	-4	5/2	13/2	-11/2	$\sqrt{5/13}$
22	-3	-5/2	13/2	-11/2	$\sqrt{8/13}$
23	-3	-5/2	13/2	-9/2	$-\sqrt{14/33}$
24	-3	-3/2	11/2	-9/2	$-\sqrt{14/33}$
25	-3	-3/2	11/2	-7/2	$-\sqrt{1/43}$
26	-3	-3/2	13/2	-9/2	$-\sqrt{20/39}$
27	-3	-1/2	7/2	-7/2	$\sqrt{21/55}$
28	-3	-1/2	11/2	-7/2	$-\sqrt{22/65}$
29	-3	-1/2	13/2	-7/2	$\sqrt{10/143}$
30	-3	1/2	5/2	-5/2	$-\sqrt{1/3}$
31	-3	1/2	7/2	-5/2	$\sqrt{1/65}$
32	-3	1/2	9/2	-5/2	$\sqrt{7/33}$
33	-3	1/2	11/2	-5/2	$-\sqrt{722/2145}$
34	-3	1/2	13/2	-5/2	$\sqrt{16/143}$
35	-3	3/2	7/2	-3/2	$\sqrt{5/18}$
36	-3	3/2	7/2	-3/2	$-\sqrt{98/495}$
37	-3	3/2	9/2	-3/2	$\sqrt{32/99}$
38	-3	3/2	11/2	-3/2	$-\sqrt{243/1390}$
39	-3	3/2	13/2	-3/2	$\sqrt{40/1287}$
40	-3	5/2	13/2	-3/2	$\sqrt{1/6}$
41	-3	5/2	5/2	-1/2	$-\sqrt{10/33}$
42	-3	5/2	7/2	-1/2	$-\sqrt{1/33}$
43	-3	5/2	9/2	-1/2	$-\sqrt{5/33}$
44	-3	5/2	11/2	-1/2	$-\sqrt{35/858}$
45	-3	5/2	13/2	-1/2	$\sqrt{2/429}$
46	-2	-5/2	9/2	-9/2	$\sqrt{5/33}$
47	-2	-5/2	11/2	-9/2	$\sqrt{70/143}$
48	-2	-5/2	13/2	-9/2	$-\sqrt{14/39}$
49	-2	-3/2	7/2	-7/2	$-\sqrt{12/55}$
50	-2	-3/2	9/2	-7/2	$-\sqrt{3/11}$
51	-2	-3/2	11/2	-7/2	$-\sqrt{3/11}$
52	-2	-3/2	13/2	-7/2	$\sqrt{14/715}$
53	-2	-3/2	13/2	-7/2	$\sqrt{70/143}$
54	-2	-1/2	5/2	-5/2	$\sqrt{3/14}$
55	-2	-1/2	7/2	-5/2	$\sqrt{54/385}$
56	-2	-1/2	9/2	-5/2	$-\sqrt{3/22}$
57	-2	-1/2	11/2	-5/2	$-\sqrt{84/715}$
58	-2	-1/2	13/2	-5/2	$\sqrt{36/143}$
59	-2	1/2	3/2	-3/2	$-\sqrt{10/63}$
60	-2	1/2	5/2	-3/2	$-\sqrt{5/42}$
61	-2	1/2	7/2	-3/2	$\sqrt{578/3465}$
62	-2	1/2	11/2	-3/2	$\sqrt{25/1386}$
63	-2	1/2	13/2	-3/2	$-\sqrt{686/2145}$
64	-2	3/2	5/2	-1/2	$\sqrt{380/1287}$
65	-2	3/2	7/2	-1/2	$\sqrt{5/21}$
66	-2	3/2	9/2	-1/2	$-\sqrt{5/42}$
67	-2	3/2	11/2	-1/2	$-\sqrt{4/231}$
68	-2	3/2	13/2	-1/2	$\sqrt{11/42}$
69	-2	3/2	13/2	-1/2	$-\sqrt{11/39}$
70	-2	5/2	3/2	1/2	$\sqrt{3/14}$
71	-2	5/2	5/2	1/2	$-\sqrt{60/223}$
72	-2	5/2	7/2	1/2	$\sqrt{125/402}$
73	-2	5/2	9/2	1/2	$-\sqrt{15/143}$
74	-2	5/2	11/2	1/2	$-\sqrt{15/143}$
75	-2	5/2	13/2	1/2	$\sqrt{7/429}$
76	-1	-5/2	7/2	-7/2	$\sqrt{2/33}$
77	-1	-5/2	9/2	-7/2	$\sqrt{10/33}$
78	-1	-5/2	11/2	-7/2	$\sqrt{63/143}$
79	-1	-5/2	13/2	-7/2	$\sqrt{28/143}$
80	-1	-5/2	5/2	-5/2	$-\sqrt{2/21}$
81	-1	-3/2	7/2	-5/2	$-\sqrt{338/1155}$
82	-1	-3/2	9/2	-5/2	$-\sqrt{2/33}$

Table 34: $[j_1 \otimes j_2 = 4 \otimes 3]$

m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-4	-3	7	$-\sqrt{4/7}$
2	-4	-2	6	$-\sqrt{3/7}$
3	-4	-1	5	$\sqrt{14/39}$
4	-4	0	4	$-\sqrt{10/21}$
5	-4	1	3	$-\sqrt{15/91}$
6	-4	2	2	$-\sqrt{14/55}$
7	-4	3	1	$\sqrt{28/65}$
8	-4	4	0	$-\sqrt{20/77}$
9	-4	5	1	$\sqrt{5/91}$
10	-4	6	2	$\sqrt{7/33}$
11	-4	7	3	$-\sqrt{21/55}$
12	-4	8	4	$\sqrt{56/195}$
13	-4	9	5	$-\sqrt{8/77}$
14	-4	10	6	$\sqrt{15/1001}$
15	-4	11	7	$-\sqrt{5/79}$
16	-4	12	8	$\sqrt{35/99}$
17	-4	13	9	$-\sqrt{3/11}$
18	-4	14	10	$\sqrt{14/117}$
19	-4	15	11	$-\sqrt{20/693}$
20	-4	16	12	$\sqrt{3/1001}$
21	-4	17	13	$\sqrt{1/3}$
22	-4	18	14	$-\sqrt{1/3}$
23	-4	19	15	$\sqrt{7/33}$
24	-4	20	16	$-\sqrt{1/11}$
25	-4	21	17	$-\sqrt{1/39}$
26	-4	22	18	$-\sqrt{1/231}$
27	-4	23	19	$\sqrt{1/3003}$
28	-4	24	20	$\sqrt{3/7}$
29	-4	25	21	$\sqrt{4/7}$
30	-3	-2	5	$-\sqrt{35/78}$
31	-3	-1	4	$-\sqrt{1/42}$
32	-3	0	3	$\sqrt{48/91}$
33	-3	1	2	$-\sqrt{21/55}$
34	-3	2	1	$-\sqrt{7/390}$
35	-3	3	0	$-\sqrt{125/462}$
36	-3	4	1	$\sqrt{30/91}$
37	-3	5	2	$-\sqrt{7/22}$
38	-3	6	3	$\sqrt{7/110}$
39	-3	7	4	$-\sqrt{7/65}$
40	-3	8	5	$-\sqrt{27/77}$
41	-3	9	6	$\sqrt{160/1001}$
42	-3	10	7	$\sqrt{5/18}$
43	-3	11	8	$-\sqrt{7/95}$
44	-3	12	9	$-\sqrt{343/1170}$
45	-3	13	10	$\sqrt{60/1001}$
46	-3	14	11	$-\sqrt{1/4}$
47	-3	15	12	$\sqrt{169/693}$
48	-3	16	13	$\sqrt{3/11}$
49	-3	17	14	$-\sqrt{1/36}$
50	-3	18	15	$\sqrt{7/99}$
51	-3	19	16	$-\sqrt{3/11}$
52	-3	20	17	$\sqrt{121/468}$
53	-3	21	18	$-\sqrt{289/2772}$
54	-3	22	19	$\sqrt{16/1001}$
55	-3	23	20	$\sqrt{1/12}$
56	-3	24	21	$-\sqrt{1/4}$
57	-3	25	22	$\sqrt{7/22}$
58	-3	26	23	$-\sqrt{5/22}$
59	-3	27	24	$\sqrt{5/52}$
60	-3	28	25	$-\sqrt{1/44}$
61	-3	29	26	$\sqrt{1/429}$
62	-3	30	27	$\sqrt{5/26}$
63	-2	-3	5	$\sqrt{1/2}$
64	-2	-2	4	$\sqrt{4/13}$
65	-2	-1	3	$-\sqrt{8/39}$
66	-2	0	2	$-\sqrt{2/33}$
67	-2	1	1	$\sqrt{6/13}$
68	-2	2	0	$\sqrt{3/11}$
69	-2	3	-1	$\sqrt{5/55}$
70	-2	4	-2	$-\sqrt{27/130}$
71	-2	5	-3	$-\sqrt{1/22}$
72	-2	6	-4	$\sqrt{60/143}$
73	-2	7	-5	$-\sqrt{5/21}$
74	-2	8	-6	$-\sqrt{1/66}$
75	-2	9	-7	$\sqrt{169/770}$
76	-2	10	-8	$-\sqrt{1/195}$
77	-2	11	-9	$\sqrt{8/143}$
78	-2	12	-10	$\sqrt{60/143}$
79	-2	13	-11	$-\sqrt{5/33}$
80	-2	14	-12	$-\sqrt{1/7}$
81	-2	15	-13	$-\sqrt{4/21}$
82	-2	16	-14	$-\sqrt{1/66}$
83	-2	17	-15	$-\sqrt{15/154}$
84	-2	18	-16	$\sqrt{80/273}$
85	-2	19	-17	$-\sqrt{7/33}$
86	-2	20	-18	$\sqrt{7/143}$
87	-2	21	-19	$\sqrt{1/84}$
88	-2	22	-20	$-\sqrt{3/28}$
89	-2	23	-21	$\sqrt{3/11}$
90	-2	24	-22	$-\sqrt{25/77}$
91	-2	25	-23	$\sqrt{75/364}$
92	-2	26	-24	$-\sqrt{3/44}$
93	-2	27	-25	$\sqrt{4/429}$
94	-2	28	-26	$\sqrt{1/11}$
95	-2	29	-27	$\sqrt{9/26}$
96	-2	30	-28	$\sqrt{9/22}$
97	-2	31	-29	$\sqrt{2/13}$
98	-2	32	-30	$\sqrt{9/22}$
99	-2	33	-31	$\sqrt{2/13}$
100	-2	34	-32	$\sqrt{9/22}$
101	-2	35	-33	$\sqrt{2/13}$
102	-2	36	-34	$\sqrt{9/22}$
103	-2	37	-35	$\sqrt{2/13}$
104	-2	38	-36	$\sqrt{9/22}$
105	-2	39	-37	$\sqrt{2/13}$
106	-2	40	-38	$\sqrt{9/22}$
107	-2	41	-39	$\sqrt{2/13}$
108	-2	42	-40	$\sqrt{9/22}$
109	-2	43	-41	$\sqrt{2/13}$
110	-2	44	-42	$\sqrt{9/22}$
111	-2	45	-43	$\sqrt{2/13}$
112	-2	46	-44	$\sqrt{9/22}$
113	-2	47	-45	$\sqrt{2/13}$
114	-2	48	-46	$\sqrt{9/22}$
115	-2	49	-47	$\sqrt{2/13}$
116	-2	50	-48	$\sqrt{9/22}$
117	-2	51	-49	$\sqrt{2/13}$
118	-2	52	-50	$\sqrt{9/22}$
119	-2	53	-51	$\sqrt{2/13}$
120	-2	54	-52	$\sqrt{9/22}$
121	-2	55	-53	$\sqrt{2/13}$
122	-2	56	-54	$\sqrt{9/22}$
123	-2	57	-55	$\sqrt{2/13}$
124	-2	58	-56	$\sqrt{9/22}$
125	-2	59	-57	$\sqrt{2/13}$
126	-2	60	-58	$\sqrt{9/22}$
127	-2	61	-59	$\sqrt{2/13}$
128	-2	62	-60	$\sqrt{9/22}$
129	-2	63	-61	$\sqrt{2/13}$
130	-2	64	-62	$\sqrt{9/22}$
131	-2	65	-63	$\sqrt{2/13}$
132	-2	66	-64	$\sqrt{9/22}$
133	-2	67	-65	$\sqrt{2/13}$
134	-2	68	-66	$\sqrt{9/22}$
135	-2	69	-67	$\sqrt{2/13}$
136	-2	70	-68	$\sqrt{9/22}$
137	-2	71	-69	$\sqrt{2/13}$
138	-2	72	-70	$\sqrt{9/22}$
139	-2	73	-71	$\sqrt{2/13}$
140	-2	74	-72	$\sqrt{9/22}$
141	-2	75	-73	$\sqrt{2/13}$
142	-2	76	-74	$\sqrt{9/22}$
143	-2	77	-75	$\sqrt{2/13}$
144	-2	78	-76	$\sqrt{9/22}$
145	-2	79	-77	$\sqrt{2/13}$
146	-2	80	-78	$\sqrt{9/22}$
147	-2	81	-79	$\sqrt{2/13}$
148	-2	82	-80	$\sqrt{9/22}$
149	-2	83	-81	$\sqrt{2/13}$
150	-2	84	-82	$\sqrt{9/22}$
151	-2	85	-83	$\sqrt{2/13}$
152	-2	86	-84	$\sqrt{9/22}$
153	-2	87	-85	$\sqrt{2/13}$
154	-2	88	-86	$\sqrt{9/22}$
155	-2	89	-87	$\sqrt{2/13}$
156	-2	90	-88	$\sqrt{9/22}$
157	-2	91	-89	$\sqrt{2/13}$
158	-2	92	-90	$\sqrt{9/22}$
159	-2	93	-91	$\sqrt{2/13}$
160	-2	94	-92	$\sqrt{9/22}$
161	-2	95	-93	$\sqrt{2/13}$
162	-2	96	-94	$\sqrt{9/22}$
163	-2	97	-95	$\sqrt{2/13}$
164	-2	98	-96	$\sqrt{9/22}$
165	-2	99	-97	$\sqrt{2/13}$
166	-2	100	-98	$\sqrt{9/22}$
167	-2	101	-99	$\sqrt{2/13}$
168	-2	102	-100	$\sqrt{9/22}$
169	-2	103	-101	$\sqrt{2/13}$
170	-2	104	-102	$\sqrt{9/22}$
171	-2	105	-103	$\sqrt{2/13}$
172	-2	106	-104	$\sqrt{9/22}$
173	-2	107	-105	$\sqrt{2/13}$
174	-2	108	-106	$\sqrt{9/22}$
175	-2	109	-107	$\sqrt{2/13}$
176	-2	110	-108	$\sqrt{9/22}$
177	-2	111	-109	$\sqrt{2/13}$
178	-2	112	-110	$\sqrt{9/22}$
179	-2	113	-111	$\sqrt{2/13}$
180	-2	114	-112	$\sqrt{9/22}$
181	-2	115	-113	$\sqrt{2/13}$
182	-2	116	-114	$\sqrt{9/22}$
183	-2	117	-115	$\sqrt{2/13}$
184	-2	118	-116	$\sqrt{9/22}$
185	-2	119	-117	$\sqrt{2/13}$
186	-2	120	-118	$\sqrt{9/22}$
187	-2	121	-119	$\sqrt{2/13}$
188	-2	122	-120	$\sqrt{9/22}$
189	-2	123	-121	$\sqrt{2/13}$
190	-2	124	-122	$\sqrt{9/22}$
191	-2	125	-123	$\sqrt{2/13}$
192	-2	126	-124	$\sqrt{9/22}$
193	-2	127	-125	$\sqrt{2/13}$
194	-2	128	-126	$\sqrt{9/22}$
195	-2	129	-127	$\sqrt{2/13}$
196	-2	130	-128	$\sqrt{9/22}$
197	-2	131	-129	$\sqrt{2/13}$
198	-2	132	-130	$\sqrt{9/22}$
199	-2	133	-131	$\sqrt{2/13}$
200	-2	134	-132	$\sqrt{9/22}$
201	-2	135	-133	$\sqrt{2/13}$
202	-2	136	-134	$\sqrt{9/22}$
203	-2	137	-135	$\sqrt{2/13}$
204	-2	138	-136	$\sqrt{9/22}$
205	-2	139	-137	$\sqrt{2/13}$
206	-2	140	-138	$\sqrt{9/22}$
207	-2	141	-139	$\sqrt{2/13}$
208	-2	142	-140	$\sqrt{9/22}$
209	-2	143	-141	$\sqrt{2/13}$
210	-2	144	-142	$\sqrt{9/22}$
211	-2	145	-143	$\sqrt{2/13}$
212	-2	146	-144	$\sqrt{9/22}$
213	-2	147	-145	$\sqrt{2/13}$
214	-2	148	-146	$\sqrt{9/22}$
215	-2	149	-147	$\sqrt{2/13}$
216	-2	150	-148	$\sqrt{9/22}$
217	-2	151	-149	$\sqrt{2/13}$
218	-2	152	-150	$\sqrt{9/22}$
219	-2	153	-151	$\sqrt{2/13}$
220	-2	154	-152	$\sqrt{9/22}$
221	-2	155	-153	$\sqrt{2/13}$
222	-2	156	-154	$\sqrt{9/22}$
223	-2	157	-155	$\sqrt{2/13}$
224	-2	158	-156	$\sqrt{9/22}$
225	-2	159	-157	$\sqrt{2/13}$
226	-2	160	-158	$\sqrt{9/22}$
227	-2	161	-159	$\sqrt{2/13}$
228	-2	162	-160	$\sqrt{9/22}$
229	-2	163	-161	$\sqrt{2/13}$
230	-2	164	-162	$\sqrt{9/22}$
231	-2	165	-163	$\sqrt{2/13}$
232	-2	166	-164	$\sqrt{9/22}$
233	-2	167	-165	$\sqrt{2/13}$
234	-2	168	-166	$\sqrt{9/22}$
235	-2	169	-167	$\sqrt{2/13}$
236	-2	170	-168	$\sqrt{9/22}$
237	-2	171	-169	$\sqrt{2/13}$
238	-2	172	-170	$\sqrt{9/22}$
239	-2	173	-171	$\sqrt{2/13}$
240	-2	174	-172	$\sqrt{9/22}$
241	-2	175	-173	$\sqrt{2/13}$
242	-2	176	-174	$\sqrt{9/22}$
243	-2	177	-175	$\sqrt{2/13}$
244	-2	178	-176	$\sqrt{9/22}$
245	-2	179	-177	$\sqrt{2/13}$
246	-2	180	-178	$\sqrt{9/22}$
247	-2	181	-179	$\sqrt{2/13}$
248	-2	182	-180	$\sqrt{9/22}$
249	-2	183	-181	$\sqrt{2/13}$
250	-2	184	-182	$\sqrt{9/22}$
251	-2	185	-183	$\sqrt{2/13}$
252	-2	186	-184	$\sqrt{9/22}$
253	-2	187	-185	

Table 36: $[j_1 \otimes j_2 = 4 \otimes 4]$

m_1	m_2	J	M	$(j_1 j_2 m_1 m_2 j_1 j_2 J M)$
1	-4	8	-8	$-\sqrt{1/2}$
2	-4	7	-7	$-\sqrt{1/2}$
3	-4	6	-6	$-\sqrt{4/15}$
4	-4	5	-5	$-\sqrt{1/2}$
5	-4	4	-4	$-\sqrt{7/30}$
6	-4	3	-3	$-\sqrt{2/13}$
7	-4	2	-2	$-\sqrt{3/5}$
8	-4	1	-1	$-\sqrt{9/26}$
9	-4	0	0	$-\sqrt{1/10}$
10	-4	0	4	$-\sqrt{14/143}$
11	-4	0	5	$-\sqrt{4/13}$
12	-4	0	6	$-\sqrt{4/11}$
13	-4	0	7	$-\sqrt{5/26}$
14	-4	0	8	$-\sqrt{1/26}$
15	-4	1	3	$-\sqrt{7/99}$
16	-4	1	4	$-\sqrt{35/143}$
17	-4	1	5	$-\sqrt{40/117}$
18	-4	1	6	$-\sqrt{8/33}$
19	-4	1	7	$-\sqrt{25/286}$
20	-4	1	8	$-\sqrt{1/78}$
21	-4	2	2	$-\sqrt{2/33}$
22	-4	2	3	$-\sqrt{7/143}$
23	-4	2	4	$-\sqrt{45/143}$
24	-4	2	5	$-\sqrt{10/39}$
25	-4	2	6	$-\sqrt{4/33}$
26	-4	2	7	$-\sqrt{9/286}$
27	-4	2	8	$-\sqrt{1/286}$
28	-4	3	1	$-\sqrt{1/15}$
29	-4	3	2	$-\sqrt{7/33}$
30	-4	3	3	$-\sqrt{49/165}$
31	-4	3	4	$-\sqrt{35/143}$
32	-4	3	5	$-\sqrt{5/39}$
33	-4	3	6	$-\sqrt{7/165}$
34	-4	3	7	$-\sqrt{7/858}$
35	-4	3	8	$-\sqrt{1/1430}$
36	-4	4	0	$-\sqrt{1/9}$
37	-4	4	1	$-\sqrt{4/15}$
38	-4	4	2	$-\sqrt{28/99}$
39	-4	4	3	$-\sqrt{98/495}$
40	-4	4	4	$-\sqrt{14/143}$
41	-4	4	5	$-\sqrt{4/117}$
42	-4	4	6	$-\sqrt{4/105}$
43	-4	4	7	$-\sqrt{1/858}$
44	-4	4	8	$-\sqrt{1/12870}$
45	-3	7	-7	$-\sqrt{1/2}$
46	-3	6	-6	$-\sqrt{1/2}$
47	-3	5	-5	$-\sqrt{7/15}$
48	-3	4	-4	$-\sqrt{8/15}$
49	-3	3	-3	$-\sqrt{9/26}$
50	-3	2	-2	$-\sqrt{1/10}$
51	-3	1	-1	$-\sqrt{2/13}$
52	-3	0	0	$-\sqrt{3/5}$
53	-3	0	4	$-\sqrt{35/143}$
54	-3	0	5	$-\sqrt{5/26}$
55	-3	0	6	$-\sqrt{1/110}$
56	-3	0	7	$-\sqrt{4/13}$
57	-3	0	8	$-\sqrt{16/65}$
58	-3	1	3	$-\sqrt{35/198}$
59	-3	1	4	$-\sqrt{63/286}$
60	-3	1	5	$-\sqrt{1/117}$
61	-3	1	6	$-\sqrt{5/33}$
62	-3	1	7	$-\sqrt{45/143}$
63	-3	1	8	$-\sqrt{5/39}$
64	-3	2	2	$-\sqrt{3/22}$
65	-3	2	3	$-\sqrt{7/33}$
66	-3	2	4	$-\sqrt{5/143}$
67	-3	2	5	$-\sqrt{5/78}$
68	-3	2	6	$-\sqrt{3/11}$
69	-3	2	7	$-\sqrt{32/143}$
70	-3	2	8	$-\sqrt{8/143}$
71	-3	3	1	$-\sqrt{7/60}$
72	-3	3	2	$-\sqrt{25/132}$
73	-3	3	3	$-\sqrt{1/105}$
74	-3	3	4	$-\sqrt{5/143}$
75	-3	3	5	$-\sqrt{35/156}$
76	-3	3	6	$-\sqrt{169/660}$
77	-3	3	7	$-\sqrt{50/429}$
78	-3	3	8	$-\sqrt{14/715}$
79	-3	4	0	$-\sqrt{1/9}$
80	-3	4	1	$-\sqrt{5/20}$
81	-3	4	2	$-\sqrt{7/396}$
82	-3	4	3	$-\sqrt{49/990}$
83	-3	4	4	$-\sqrt{63/286}$
84	-3	4	5	$-\sqrt{121/468}$
85	-3	4	6	$-\sqrt{289/1980}$
86	-3	4	7	$-\sqrt{6/143}$
87	-3	4	8	$-\sqrt{32/6435}$
88	-3	5	1	$-\sqrt{1/15}$
89	-3	5	2	$-\sqrt{7/33}$
90	-3	5	3	$-\sqrt{49/165}$
91	-3	5	4	$-\sqrt{35/143}$
92	-3	5	5	$-\sqrt{5/39}$
93	-3	5	6	$-\sqrt{7/165}$
94	-3	5	7	$-\sqrt{7/858}$
95	-3	5	8	$-\sqrt{1/1430}$
96	-2	6	-6	$-\sqrt{4/15}$
97	-2	5	-5	$-\sqrt{1/2}$
98	-2	4	-4	$-\sqrt{7/30}$
99	-2	3	-3	$-\sqrt{9/26}$
100	-2	2	-2	$-\sqrt{1/10}$
101	-2	1	-1	$-\sqrt{2/13}$
102	-2	0	0	$-\sqrt{3/5}$
103	-2	0	4	$-\sqrt{45/143}$
104	-2	0	5	$-\sqrt{14/55}$
105	-2	0	6	$-\sqrt{28/65}$
106	-2	0	7	$-\sqrt{25/99}$
107	-2	0	8	$-\sqrt{5/143}$
108	-2	1	3	$-\sqrt{35/234}$
109	-2	1	4	$-\sqrt{7/66}$
110	-2	1	5	$-\sqrt{14/143}$
111	-2	1	6	$-\sqrt{14/39}$
112	-2	1	7	$-\sqrt{15/77}$
113	-2	1	8	$-\sqrt{5/66}$
114	-2	2	2	$-\sqrt{11/182}$
115	-2	2	3	$-\sqrt{7/39}$
116	-2	2	4	$-\sqrt{35/143}$
117	-2	2	5	$-\sqrt{35/143}$
118	-2	2	6	$-\sqrt{3/20}$
119	-2	2	7	$-\sqrt{27/308}$
120	-2	2	8	$-\sqrt{4/165}$
121	-2	3	1	$-\sqrt{180/1001}$
122	-2	3	2	$-\sqrt{5/156}$
123	-2	3	3	$-\sqrt{21/220}$
124	-2	3	4	$-\sqrt{42/143}$
125	-2	3	5	$-\sqrt{98/715}$
126	-2	3	6	$-\sqrt{1/9}$
127	-2	3	7	$-\sqrt{1/15}$
128	-2	3	8	$-\sqrt{16/693}$
129	-2	4	0	$-\sqrt{169/990}$
130	-2	4	1	$-\sqrt{11/182}$
131	-2	4	2	$-\sqrt{4/117}$
132	-2	4	3	$-\sqrt{11/45}$
133	-2	4	4	$-\sqrt{98/429}$
134	-2	4	5	$-\sqrt{392/6435}$
135	-2	4	6	$-\sqrt{7/60}$
136	-2	4	7	$-\sqrt{25/132}$
137	-2	4	8	$-\sqrt{7/165}$
138	-2	5	1	$-\sqrt{5/143}$
139	-2	5	2	$-\sqrt{35/156}$
140	-2	5	3	$-\sqrt{169/660}$
141	-2	5	4	$-\sqrt{50/429}$
142	-2	5	5	$-\sqrt{14/715}$
143	-2	5	6	$-\sqrt{2/33}$
144	-2	5	7	$-\sqrt{7/33}$
145	-2	5	8	$-\sqrt{45/143}$
146	-2	6	2	$-\sqrt{10/39}$
147	-2	6	3	$-\sqrt{4/33}$
148	-2	6	4	$-\sqrt{9/286}$
149	-2	6	5	$-\sqrt{1/286}$
150	-2	6	6	$-\sqrt{2/13}$
151	-1	7	-7	$-\sqrt{2/5}$
152	-1	6	-6	$-\sqrt{9/26}$
153	-1	5	-5	$-\sqrt{1/10}$
154	-1	4	-4	$-\sqrt{35/143}$
155	-1	3	-3	$-\sqrt{5/26}$
156	-1	2	-2	$-\sqrt{1/13}$
157	-1	1	-1	$-\sqrt{4/13}$
158	-1	0	0	$-\sqrt{16/65}$
159	-1	0	4	$-\sqrt{25/99}$
160	-1	0	5	$-\sqrt{5/143}$
161	-1	0	6	$-\sqrt{35/234}$
162	-1	0	7	$-\sqrt{7/66}$
163	-1	0	8	$-\sqrt{14/143}$
164	-1	1	3	$-\sqrt{14/39}$
165	-1	1	4	$-\sqrt{50/231}$
166	-1	1	5	$-\sqrt{80/1001}$
167	-1	1	6	$-\sqrt{7/234}$
168	-1	1	7	$-\sqrt{56/143}$
169	-1	1	8	$-\sqrt{1/6}$
170	-1	2	2	$-\sqrt{5/462}$
171	-1	2	3	$-\sqrt{3/22}$
172	-1	2	4	$-\sqrt{81/2002}$
173	-1	2	5	$-\sqrt{3/26}$
174	-1	2	6	$-\sqrt{7/66}$
175	-1	2	7	$-\sqrt{35/429}$
176	-1	2	8	$-\sqrt{49/143}$
177	-1	3	1	$-\sqrt{1/9}$
178	-1	3	2	$-\sqrt{1/60}$
179	-1	3	3	$-\sqrt{289/2772}$
180	-1	3	4	$-\sqrt{9/110}$
181	-1	3	5	$-\sqrt{81/2002}$
182	-1	3	6	$-\sqrt{9/52}$
183	-1	3	7	$-\sqrt{1/1980}$
184	-1	3	8	$-\sqrt{98/429}$
185	-1	4	0	$-\sqrt{683/2803}$
186	-1	4	1	$-\sqrt{3/20}$
187	-1	4	2	$-\sqrt{27/308}$
188	-1	4	3	$-\sqrt{4/165}$
189	-1	4	4	$-\sqrt{180/1001}$
190	-1	4	5	$-\sqrt{5/156}$
191	-1	4	6	$-\sqrt{21/220}$
192	-1	4	7	$-\sqrt{42/143}$
193	-1	4	8	$-\sqrt{98/715}$
194	-1	5	2	$-\sqrt{3/22}$
195	-1	5	3	$-\sqrt{7/33}$
196	-1	5	4	$-\sqrt{5/143}$
197	-1	5	5	$-\sqrt{35/156}$
198	-1	5	6	$-\sqrt{169/660}$
199	-1	5	7	$-\sqrt{50/429}$
200	-1	5	8	$-\sqrt{14/715}$
201	-1	6	2	$-\sqrt{10/39}$
202	-1	6	3	$-\sqrt{4/33}$
203	-1	6	4	$-\sqrt{9/286}$
204	-1	6	5	$-\sqrt{1/286}$
205	-1	6	6	$-\sqrt{2/13}$
206	-1	7	2	$-\sqrt{2/5}$
207	-1	7	3	$-\sqrt{9/26}$
208	-1	7	4	$-\sqrt{1/10}$
209	-1	7	5	$-\sqrt{35/143}$
210	-1	7	6	$-\sqrt{5/26}$
211	-1	7	7	$-\sqrt{1/13}$
212	-1	7	8	$-\sqrt{4/13}$
213	-1	8	2	$-\sqrt{16/65}$
214	-1	8	3	$-\sqrt{25/99}$
215	-1	8	4	$-\sqrt{5/143}$
216	-1	8	5	$-\sqrt{35/234}$
217	-1	8	6	$-\sqrt{7/66}$
218	-1	8	7	$-\sqrt{14/143}$
219	-1	9	0	$-\sqrt{1/9}$
220	-1	9	1	$-\sqrt{1/60}$
221	-1	9	2	$-\sqrt{289/2772}$
222	-1	9	3	$-\sqrt{9/110}$
223	-1	9	4	$-\sqrt{81/2002}$
224	-1	9	5	$-\sqrt{9/52}$
225	-1	9	6	$-\sqrt{1/1980}$
226	-1	9	7	$-\sqrt{98/429}$
227	-1	10	0	$-\sqrt{683/2803}$
228	-1	10	1	$-\sqrt{3/20}$
229	-1	10	2	$-\sqrt{27/308}$
230	-1	10	3	$-\sqrt{4/165}$
231	-1	10	4	$-\sqrt{180/1001}$
232	-1	10	5	$-\sqrt{5/156}$
233	-1	10	6	$-\sqrt{21/220}$
234	-1	10	7	$-\sqrt{42/143}$
235	-1	10	8	$-\sqrt{98/715}$
236	-1	11	2	$-\sqrt{3/22}$
237	-1	11	3	$-\sqrt{7/33}$
238	-1	11	4	$-\sqrt{5/143}$
239	-1	11	5	$-\sqrt{35/156}$
240	-1	11	6	$-\sqrt{169/660}$
241	-1	11	7	$-\sqrt{50/429}$
242	-1	11	8	$-\sqrt{14/715}$
243	-1	12	0	$-\sqrt{10/39}$
244	-1	12	1	$-\sqrt{4/33}$
245	-1	12	2	$-\sqrt{9/286}$
246	-1	12	3	$-\sqrt{1/286}$
247	-1	12	4	$-\sqrt{2/13}$
248	-1	13	2	$-\sqrt{2/5}$
249	-1	13	3	$-\sqrt{9/26}$
250	-1	13	4	$-\sqrt{1/10}$
251	-1	13	5	$-\sqrt{35/143}$
252	-1	13	6	$-\sqrt{5/26}$
253	-1	13	7	$-\sqrt{1/13}$
254	-1	13	8	$-\sqrt{4/13}$
255	-1	14	2	$-\sqrt{16/65}$
256	-1	14	3	$-\sqrt{25/99}$
257				