

## Atomic Multipoles (spinful JML basis)

$$\begin{aligned}\text{bra:} &= |\tfrac{1}{2}, \tfrac{1}{2}; s\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; s\rangle \\ \text{ket:} &= |\tfrac{1}{2}, \tfrac{1}{2}; s\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; s\rangle\end{aligned}$$

Table 1: (s,s) block.

No.	multipole	matrix
1	$\mathbb{Q}_{0,0}^{(a)}$	$\begin{vmatrix} 1 & 0 \\ 0 & 1 \end{vmatrix}$
2	$\mathbb{M}_{1,1}^{(1,-1;a)}$	$\begin{vmatrix} 0 & -\sqrt{2} \\ 0 & 0 \end{vmatrix}$
3	$\mathbb{M}_{1,0}^{(1,-1;a)}$	$\begin{vmatrix} 1 & 0 \\ 0 & -1 \end{vmatrix}$
4	$\mathbb{M}_{1,-1}^{(1,-1;a)}$	$\begin{vmatrix} 0 & 0 \\ \sqrt{2} & 0 \end{vmatrix}$

$$\begin{aligned}\text{bra:} &= |\tfrac{1}{2}, \tfrac{1}{2}; s\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; s\rangle \\ \text{ket:} &= |\tfrac{1}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{3}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; p\rangle\end{aligned}$$

Table 2: (s,p) block.

No.	multipole	matrix
5	$\mathbb{Q}_{1,1}^{(a)}$	$\begin{vmatrix} 0 & \frac{\sqrt{2}}{3} & 0 & 0 & -\frac{1}{3} & 0 \\ 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{3} \end{vmatrix}$
6	$\mathbb{Q}_{1,0}^{(a)}$	$\begin{vmatrix} -\frac{1}{3} & 0 & 0 & \frac{\sqrt{2}}{3} & 0 & 0 \\ 0 & \frac{1}{3} & 0 & 0 & \frac{\sqrt{2}}{3} & 0 \end{vmatrix}$

*continued ...*

Table 2

No.	multipole	matrix						
7	$\mathbb{Q}_{1,-1}^{(a)}$	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	
		$-\frac{\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0	0	
8	$\mathbb{Q}_{1,1}^{(1,0;a)}$	0	$-\frac{2}{9}$	0	0	$-\frac{\sqrt{2}}{18}$	0	
		0	0	0	0	0	$-\frac{\sqrt{6}}{18}$	
9	$\mathbb{Q}_{1,0}^{(1,0;a)}$	$\frac{\sqrt{2}}{9}$	0	0	$\frac{1}{9}$	0	0	
		0	$-\frac{\sqrt{2}}{9}$	0	0	$\frac{1}{9}$	0	
10	$\mathbb{Q}_{1,-1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{6}}{18}$	0	0	0	
		$\frac{2}{9}$	0	0	$-\frac{\sqrt{2}}{18}$	0	0	
11	$\mathbb{G}_{2,2}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{6}i}{9}$	
		0	0	0	0	0	0	
12	$\mathbb{G}_{2,1}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{2}i}{6}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}i}{18}$	
13	$\mathbb{G}_{2,0}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{3}i}{9}$	0	0	
		0	0	0	0	$-\frac{\sqrt{3}i}{9}$	0	
14	$\mathbb{G}_{2,-1}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{6}i}{18}$	0	0	0	
		0	0	0	$\frac{\sqrt{2}i}{6}$	0	0	
15	$\mathbb{G}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}i}{9}$	0	0	0	
16	$\mathbb{G}_{0,0}^{(1,1;a)}$	$-\frac{\sqrt{3}i}{9}$	0	0	0	0	0	
		0	$-\frac{\sqrt{3}i}{9}$	0	0	0	0	
17	$\mathbb{T}_{1,1}^{(a)}$	0	$\frac{\sqrt{2}i}{9}$	0	0	$-\frac{i}{9}$	0	
		0	0	0	0	0	$-\frac{\sqrt{3}i}{9}$	
18	$\mathbb{T}_{1,0}^{(a)}$	$-\frac{i}{9}$	0	0	$\frac{\sqrt{2}i}{9}$	0	0	
		0	$\frac{i}{9}$	0	0	$\frac{\sqrt{2}i}{9}$	0	

continued ...

Table 2

No.	multipole	matrix						
19	$\mathbb{T}_{1,-1}^{(a)}$	0	0	$-\frac{\sqrt{3}i}{9}$	0	0	0	
		$-\frac{\sqrt{2}i}{9}$	0	0	$-\frac{i}{9}$	0	0	
20	$\mathbb{T}_{1,1}^{(1,0;a)}$	0	$\frac{2i}{3}$	0	0	$\frac{\sqrt{2}i}{6}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}i}{6}$	
21	$\mathbb{T}_{1,0}^{(1,0;a)}$	$-\frac{\sqrt{2}i}{3}$	0	0	$-\frac{i}{3}$	0	0	
		0	$\frac{\sqrt{2}i}{3}$	0	0	$-\frac{i}{3}$	0	
22	$\mathbb{T}_{1,-1}^{(1,0;a)}$	0	0	$\frac{\sqrt{6}i}{6}$	0	0	0	
		$-\frac{2i}{3}$	0	0	$\frac{\sqrt{2}i}{6}$	0	0	
23	$\mathbb{M}_{2,2}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{6}}{3}$	
		0	0	0	0	0	0	
24	$\mathbb{M}_{2,1}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{2}}{2}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}}{6}$	
25	$\mathbb{M}_{2,0}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{3}}{3}$	0	0	
		0	0	0	0	$-\frac{\sqrt{3}}{3}$	0	
26	$\mathbb{M}_{2,-1}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{6}}{6}$	0	0	0	
		0	0	0	$\frac{\sqrt{2}}{2}$	0	0	
27	$\mathbb{M}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}}{3}$	0	0	0	
28	$\mathbb{M}_{0,0}^{(1,1;a)}$	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	
		0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

$$\text{ket:} = |\frac{3}{2}, \frac{3}{2}; d\rangle, |\frac{3}{2}, \frac{1}{2}; d\rangle, |\frac{3}{2}, -\frac{1}{2}; d\rangle, |\frac{3}{2}, -\frac{3}{2}; d\rangle, |\frac{5}{2}, \frac{5}{2}; d\rangle, |\frac{5}{2}, \frac{3}{2}; d\rangle, |\frac{5}{2}, \frac{1}{2}; d\rangle, |\frac{5}{2}, -\frac{1}{2}; d\rangle, |\frac{5}{2}, -\frac{3}{2}; d\rangle, |\frac{5}{2}, -\frac{5}{2}; d\rangle$$

Table 3: (s,d) block.

No.	multipole	matrix
29	$\mathbb{Q}_{2,2}^{(a)}$	$\begin{bmatrix} 0 & 0 & 0 & -\frac{2}{5} & 0 & 0 & 0 & 0 & \frac{1}{5} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{5} \end{bmatrix}$
30	$\mathbb{Q}_{2,1}^{(a)}$	$\begin{bmatrix} 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 \\ 0 & 0 & 0 & -\frac{1}{5} & 0 & 0 & 0 & 0 & -\frac{2}{5} & 0 \end{bmatrix}$
31	$\mathbb{Q}_{2,0}^{(a)}$	$\begin{bmatrix} 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 & 0 \\ 0 & 0 & \frac{\sqrt{2}}{5} & 0 & 0 & 0 & 0 & \frac{\sqrt{3}}{5} & 0 & 0 \end{bmatrix}$
32	$\mathbb{Q}_{2,-1}^{(a)}$	$\begin{bmatrix} \frac{1}{5} & 0 & 0 & 0 & 0 & -\frac{2}{5} & 0 & 0 & 0 & 0 \\ 0 & -\frac{\sqrt{3}}{5} & 0 & 0 & 0 & 0 & -\frac{\sqrt{2}}{5} & 0 & 0 & 0 \end{bmatrix}$
33	$\mathbb{Q}_{2,-2}^{(a)}$	$\begin{bmatrix} 0 & 0 & 0 & 0 & \frac{\sqrt{5}}{5} & 0 & 0 & 0 & 0 & 0 \\ \frac{2}{5} & 0 & 0 & 0 & 0 & \frac{1}{5} & 0 & 0 & 0 & 0 \end{bmatrix}$
34	$\mathbb{Q}_{2,2}^{(1,0;a)}$	$\begin{bmatrix} 0 & 0 & 0 & \frac{\sqrt{6}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{30} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{30} \end{bmatrix}$
35	$\mathbb{Q}_{2,1}^{(1,0;a)}$	$\begin{bmatrix} 0 & 0 & -\frac{3\sqrt{2}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{15} & 0 & 0 \\ 0 & 0 & 0 & \frac{\sqrt{6}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 \end{bmatrix}$
36	$\mathbb{Q}_{2,0}^{(1,0;a)}$	$\begin{bmatrix} 0 & \frac{\sqrt{3}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{10} & 0 & 0 & 0 \\ 0 & 0 & -\frac{\sqrt{3}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{2}}{10} & 0 & 0 \end{bmatrix}$
37	$\mathbb{Q}_{2,-1}^{(1,0;a)}$	$\begin{bmatrix} -\frac{\sqrt{6}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{6}}{15} & 0 & 0 & 0 & 0 \\ 0 & \frac{3\sqrt{2}}{20} & 0 & 0 & 0 & 0 & -\frac{\sqrt{3}}{15} & 0 & 0 & 0 \end{bmatrix}$
38	$\mathbb{Q}_{2,-2}^{(1,0;a)}$	$\begin{bmatrix} 0 & 0 & 0 & 0 & \frac{\sqrt{30}}{30} & 0 & 0 & 0 & 0 & 0 \\ -\frac{\sqrt{6}}{10} & 0 & 0 & 0 & 0 & \frac{\sqrt{6}}{30} & 0 & 0 & 0 & 0 \end{bmatrix}$
39	$\mathbb{G}_{3,3}^{(1,-1;a)}$	$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{10}i}{10} \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 \end{bmatrix}$
40	$\mathbb{G}_{3,2}^{(1,-1;a)}$	$\begin{bmatrix} 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & \frac{\sqrt{3}i}{6} & 0 \\ 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & 0 & -\frac{\sqrt{15}i}{30} \end{bmatrix}$

*continued ...*

Table 3

No.	multipole	matrix									
41	$\mathbb{G}_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{15}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{30}$	0
42	$\mathbb{G}_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{10}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{10}$	0	0
43	$\mathbb{G}_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{30}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{15}i}{15}$	0	0	0
44	$\mathbb{G}_{3,-2}^{(1,-1;a)}$	0	0	0	0	$\frac{\sqrt{15}i}{30}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{3}i}{6}$	0	0	0	0
45	$\mathbb{G}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{10}i}{10}$	0	0	0	0	0
46	$\mathbb{G}_{1,1}^{(1,1;a)}$	0	0	$\frac{\sqrt{10}i}{20}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{30}i}{20}$	0	0	0	0	0	0
47	$\mathbb{G}_{1,0}^{(1,1;a)}$	0	$-\frac{\sqrt{5}i}{10}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{5}i}{10}$	0	0	0	0	0	0	0
48	$\mathbb{G}_{1,-1}^{(1,1;a)}$	$\frac{\sqrt{30}i}{20}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{20}$	0	0	0	0	0	0	0	0
49	$\mathbb{T}_{2,2}^{(a)}$	0	0	0	$-\frac{i}{5}$	0	0	0	0	$\frac{i}{10}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{10}$
50	$\mathbb{T}_{2,1}^{(a)}$	0	0	$\frac{\sqrt{3}i}{10}$	0	0	0	0	$-\frac{\sqrt{2}i}{10}$	0	0
		0	0	0	$-\frac{i}{10}$	0	0	0	0	$-\frac{i}{5}$	0
51	$\mathbb{T}_{2,0}^{(a)}$	0	$-\frac{\sqrt{2}i}{10}$	0	0	0	0	$\frac{\sqrt{3}i}{10}$	0	0	0
		0	0	$\frac{\sqrt{2}i}{10}$	0	0	0	0	$\frac{\sqrt{3}i}{10}$	0	0
52	$\mathbb{T}_{2,-1}^{(a)}$	$\frac{i}{10}$	0	0	0	0	$-\frac{i}{5}$	0	0	0	0
		0	$-\frac{\sqrt{3}i}{10}$	0	0	0	0	$-\frac{\sqrt{2}i}{10}$	0	0	0

continued ...

Table 3

No.	multipole	matrix											
53	$\mathbb{T}_{2,-2}^{(a)}$	0	0	0	0	$\frac{\sqrt{5}i}{10}$	0	0	0	0	0		
		$\frac{i}{5}$	0	0	0	0	$\frac{i}{10}$	0	0	0	0		
54	$\mathbb{T}_{2,2}^{(1,0;a)}$	0	0	0	$-\frac{\sqrt{6}i}{5}$	0	0	0	0	$-\frac{\sqrt{6}i}{15}$	0		
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{15}$		
55	$\mathbb{T}_{2,1}^{(1,0;a)}$	0	0	$\frac{3\sqrt{2}i}{10}$	0	0	0	0	$\frac{2\sqrt{3}i}{15}$	0	0		
		0	0	0	$-\frac{\sqrt{6}i}{10}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0		
56	$\mathbb{T}_{2,0}^{(1,0;a)}$	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0	0	0		
		0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0	0		
57	$\mathbb{T}_{2,-1}^{(1,0;a)}$	$\frac{\sqrt{6}i}{10}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0	0	0	0		
		0	$-\frac{3\sqrt{2}i}{10}$	0	0	0	0	$\frac{2\sqrt{3}i}{15}$	0	0	0		
58	$\mathbb{T}_{2,-2}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{30}i}{15}$	0	0	0	0	0		
		$\frac{\sqrt{6}i}{5}$	0	0	0	0	$-\frac{\sqrt{6}i}{15}$	0	0	0	0		
59	$\mathbb{M}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{5}$			
		0	0	0	0	0	0	0	0	0			
60	$\mathbb{M}_{3,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{3}$	0			
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{15}$			
61	$\mathbb{M}_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{15}$	0	0			
		0	0	0	0	0	0	0	$\frac{\sqrt{30}}{15}$	0			
62	$\mathbb{M}_{3,0}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{5}}{5}$	0	0	0			
		0	0	0	0	0	0	$-\frac{\sqrt{5}}{5}$	0	0			
63	$\mathbb{M}_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	$-\frac{\sqrt{30}}{15}$	0	0	0	0		
		0	0	0	0	0	0	$\frac{2\sqrt{15}}{15}$	0	0	0		
64	$\mathbb{M}_{3,-2}^{(1,-1;a)}$	0	0	0	0	$\frac{\sqrt{15}}{15}$	0	0	0	0	0		
		0	0	0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0		

continued ...

Table 3

No.	multipole	matrix											
65	$\mathbb{M}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	
66	$\mathbb{M}_{1,1}^{(1,1;a)}$	0	0	$\frac{\sqrt{10}}{10}$	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{\sqrt{30}}{10}$	0	0	0	0	0	0	0	
67	$\mathbb{M}_{1,0}^{(1,1;a)}$	0	$-\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0	
68	$\mathbb{M}_{1,-1}^{(1,1;a)}$	$\frac{\sqrt{30}}{10}$	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{\sqrt{10}}{10}$	0	0	0	0	0	0	0	0	0	

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; s\rangle, |\frac{1}{2}, -\frac{1}{2}; s\rangle$$

$$\text{ket:} = |\frac{5}{2}, \frac{5}{2}; f\rangle, |\frac{5}{2}, \frac{3}{2}; f\rangle, |\frac{5}{2}, \frac{1}{2}; f\rangle, |\frac{5}{2}, -\frac{1}{2}; f\rangle, |\frac{5}{2}, -\frac{3}{2}; f\rangle, |\frac{5}{2}, -\frac{5}{2}; f\rangle, |\frac{7}{2}, \frac{7}{2}; f\rangle, |\frac{7}{2}, \frac{5}{2}; f\rangle, |\frac{7}{2}, \frac{3}{2}; f\rangle, |\frac{7}{2}, \frac{1}{2}; f\rangle, |\frac{7}{2}, -\frac{1}{2}; f\rangle, |\frac{7}{2}, -\frac{3}{2}; f\rangle, |\frac{7}{2}, -\frac{5}{2}; f\rangle, |\frac{7}{2}, -\frac{7}{2}; f\rangle$$

Table 4: (s,f) block.

No.	multipole	matrix													
69	$\mathbb{Q}_{3,3}^{(a)}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{7}$
70	$\mathbb{Q}_{3,2}^{(a)}$	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0
71	$\mathbb{Q}_{3,1}^{(a)}$	0	0	0	$\frac{2}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0
72	$\mathbb{Q}_{3,0}^{(a)}$	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0
		0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	0	$\frac{2}{7}$	0	0

continued ...

Table 4

No.	multipole	matrix														
73	$\mathbb{Q}_{3,-1}^{(a)}$	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0	0	0	0
		0	0	$-\frac{2}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0
74	$\mathbb{Q}_{3,-2}^{(a)}$	$-\frac{1}{7}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{5}}{7}$	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0
75	$\mathbb{Q}_{3,-3}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{7}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	0
76	$\mathbb{Q}_{3,3}^{(1,0;a)}$	0	0	0	0	0	$-\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}}{70}$	
77	$\mathbb{Q}_{3,2}^{(1,0;a)}$	0	0	0	0	$\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{70}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{9\sqrt{2}}{70}$	0	
78	$\mathbb{Q}_{3,1}^{(1,0;a)}$	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{9}{70}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{70}$	0	0	
79	$\mathbb{Q}_{3,0}^{(1,0;a)}$	0	0	$\frac{6}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{35}$	0	0	0	0	
		0	0	0	$-\frac{6}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{35}$	0	0	0	
80	$\mathbb{Q}_{3,-1}^{(1,0;a)}$	0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{70}$	0	0	0	0	0	
		0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{9}{70}$	0	0	0	0	
81	$\mathbb{Q}_{3,-2}^{(1,0;a)}$	$\frac{2\sqrt{3}}{35}$	0	0	0	0	0	0	0	$\frac{9\sqrt{2}}{70}$	0	0	0	0	0	
		0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{6}}{70}$	0	0	0	0	
82	$\mathbb{Q}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{21}}{70}$	0	0	0	0	0	0	0	
		$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{70}$	0	0	0	0	0	0	
83	$\mathbb{G}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{35}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
84	$\mathbb{G}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3i}{10}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{70}$		

continued ...



Table 4

No.	multipole	matrix														
85	$\mathbb{G}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{70}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{70}$	0	
86	$\mathbb{G}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{35}i}{70}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{70}$	0	0
87	$\mathbb{G}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{35}$	0	0
88	$\mathbb{G}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{35}i}{70}$	0	0	0
89	$\mathbb{G}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{70}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{70}$	0	0	0	0
90	$\mathbb{G}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{70}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{3i}{10}$	0	0	0	0	0
91	$\mathbb{G}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{35}$	0	0	0	0	0	0	0
92	$\mathbb{G}_{2,2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{21}i}{35}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{105}i}{35}$	0	0	0	0	0	0	0	0	0
93	$\mathbb{G}_{2,1}^{(1,1;a)}$	0	0	0	$\frac{\sqrt{42}i}{35}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{21}i}{35}$	0	0	0	0	0	0	0	0	0	0
94	$\mathbb{G}_{2,0}^{(1,1;a)}$	0	0	$-\frac{3\sqrt{7}i}{35}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{7}i}{35}$	0	0	0	0	0	0	0	0	0	0	0
95	$\mathbb{G}_{2,-1}^{(1,1;a)}$	0	$\frac{2\sqrt{21}i}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{42}i}{35}$	0	0	0	0	0	0	0	0	0	0	0	0
96	$\mathbb{G}_{2,-2}^{(1,1;a)}$	$-\frac{\sqrt{105}i}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{21}i}{35}$	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 4

No.	multipole	matrix														
97	$\mathbb{T}_{3,3}^{(a)}$	0	0	0	0	0	$\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{3i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{35}$	
98	$\mathbb{T}_{3,2}^{(a)}$	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	
		0	0	0	0	0	$\frac{3i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{6}i}{35}$	0	
99	$\mathbb{T}_{3,1}^{(a)}$	0	0	0	$\frac{6i}{35}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{35}$	0	0	0	
		0	0	0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0	
100	$\mathbb{T}_{3,0}^{(a)}$	0	0	$-\frac{3\sqrt{3}i}{35}$	0	0	0	0	0	0	0	$\frac{6i}{35}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{3}i}{35}$	0	0	0	0	0	0	0	$\frac{6i}{35}$	0	0	0
101	$\mathbb{T}_{3,-1}^{(a)}$	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	$-\frac{6i}{35}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{35}$	0	0	0	0
102	$\mathbb{T}_{3,-2}^{(a)}$	$-\frac{3i}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0
103	$\mathbb{T}_{3,-3}^{(a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{35}$	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{3i}{35}$	0	0	0	0	0	0	0
104	$\mathbb{T}_{3,3}^{(1,0;a)}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{14}$	
105	$\mathbb{T}_{3,2}^{(1,0;a)}$	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{14}$	0	0	
		0	0	0	0	0	$\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	
106	$\mathbb{T}_{3,1}^{(1,0;a)}$	0	0	0	$\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{3i}{14}$	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0	
107	$\mathbb{T}_{3,0}^{(1,0;a)}$	0	0	$-\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	
		0	0	0	$\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	
108	$\mathbb{T}_{3,-1}^{(1,0;a)}$	0	$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	0	$\frac{3i}{14}$	0	0	0	0

continued ...

Table 4

No.	multipole	matrix													
109	$\mathbb{T}_{3,-2}^{(1,0;a)}$	$-\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{14}$	0	0	0	0	0
110	$\mathbb{T}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{14}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{2}i}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{14}$	0	0	0	0	0	0
111	$\mathbb{M}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$		
		0	0	0	0	0	0	0	0	0	0	0	0		
112	$\mathbb{M}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{2}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{14}$	
113	$\mathbb{M}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{14}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{14}$	0	
114	$\mathbb{M}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{14}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{14}$	0	0	
115	$\mathbb{M}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{7}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{7}$	0	0	0	
116	$\mathbb{M}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{14}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{35}}{14}$	0	0	0	0	
117	$\mathbb{M}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{14}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$	0	0	0	0	0	
118	$\mathbb{M}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{14}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$\frac{1}{2}$	0	0	0	0	0	
119	$\mathbb{M}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	
120	$\mathbb{M}_{2,2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{105}}{21}$	0	0	0	0	0	0	0	

continued ...

Table 4

No.	multipole	matrix															
121	$\mathbb{M}_{2,1}^{(1,1;a)}$	0	0	0	$\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0
122	$\mathbb{M}_{2,0}^{(1,1;a)}$	0	0	$-\frac{\sqrt{7}}{7}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}}{7}$	0	0	0	0	0	0	0	0	0	0	0	0
123	$\mathbb{M}_{2,-1}^{(1,1;a)}$	0	$\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0
124	$\mathbb{M}_{2,-2}^{(1,1;a)}$	$-\frac{\sqrt{105}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0

$$\begin{aligned} \text{bra:} &= |\tfrac{1}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{3}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; p\rangle \\ \text{ket:} &= |\tfrac{1}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{3}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; p\rangle \end{aligned}$$

Table 5: (p,p) block.

No.	multipole	matrix						
125	$\mathbb{Q}_{0,0}^{(a)}$	1	0	0	0	0	0	0
		0	1	0	0	0	0	0
		0	0	1	0	0	0	0
		0	0	0	1	0	0	0
		0	0	0	0	1	0	0
		0	0	0	0	0	1	0

continued ...

Table 5

No.	multipole	matrix						
126	$\mathbb{Q}_{2,2}^{(a)}$	0	0	0	0	0	$-\frac{2}{5}$	
		0	0	0	0	0	0	
		0	$\frac{2}{5}$	0	0	$-\frac{\sqrt{2}}{5}$	0	
		0	0	0	0	0	$-\frac{\sqrt{2}}{5}$	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
127	$\mathbb{Q}_{2,1}^{(a)}$	0	0	0	0	$\frac{\sqrt{3}}{5}$	0	
		0	0	0	0	0	$-\frac{1}{5}$	
		$-\frac{1}{5}$	0	0	$\frac{\sqrt{2}}{5}$	0	0	
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{2}}{5}$	
		0	0	0	0	0	0	
128	$\mathbb{Q}_{2,0}^{(a)}$	0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	
		0	0	0	0	$\frac{\sqrt{2}}{5}$	0	
		0	0	$-\frac{1}{5}$	0	0	0	
		$-\frac{\sqrt{2}}{5}$	0	0	$\frac{1}{5}$	0	0	
		0	$\frac{\sqrt{2}}{5}$	0	0	$\frac{1}{5}$	0	
		0	0	0	0	0	$-\frac{1}{5}$	
129	$\mathbb{Q}_{2,-1}^{(a)}$	0	0	$\frac{1}{5}$	0	0	0	
		0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	
		0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	
		$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	
		0	$\frac{1}{5}$	0	0	$\frac{\sqrt{2}}{5}$	0	

*continued ...*

Table 5

No.	multipole	matrix						
130	$\mathbb{Q}_{2,-2}^{(a)}$	0	0	0	0	0	0	
		0	0	$\frac{2}{5}$	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	
		$-\frac{2}{5}$	0	0	$-\frac{\sqrt{2}}{5}$	0	0	
131	$\mathbb{Q}_{2,2}^{(1,-1;a)}$	0	0	0	0	0	$-\frac{\sqrt{6}}{3}$	
		0	0	0	0	0	0	
		0	$\frac{\sqrt{6}}{3}$	0	0	$\frac{2\sqrt{3}}{3}$	0	
		0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
132	$\mathbb{Q}_{2,1}^{(1,-1;a)}$	0	0	0	0	$\frac{\sqrt{2}}{2}$	0	
		0	0	0	0	0	$-\frac{\sqrt{6}}{6}$	
		$-\frac{\sqrt{6}}{6}$	0	0	$-\frac{2\sqrt{3}}{3}$	0	0	
		0	$\frac{\sqrt{2}}{2}$	0	0	0	0	
		0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	
		0	0	0	0	0	0	
133	$\mathbb{Q}_{2,0}^{(1,-1;a)}$	0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	
		0	0	0	0	$\frac{\sqrt{3}}{3}$	0	
		0	0	$\frac{\sqrt{6}}{3}$	0	0	0	
		$-\frac{\sqrt{3}}{3}$	0	0	$-\frac{\sqrt{6}}{3}$	0	0	
		0	$\frac{\sqrt{3}}{3}$	0	0	$-\frac{\sqrt{6}}{3}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}}{3}$	

*continued ...*

Table 5

No.	multipole	matrix						
134	$\mathbb{Q}_{2,-1}^{(1,-1;a)}$	0	0	$\frac{\sqrt{6}}{6}$	0	0	0	
		0	0	0	$-\frac{\sqrt{2}}{2}$	0	0	
		0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	
		$-\frac{\sqrt{2}}{2}$	0	0	0	0	0	
		0	$\frac{\sqrt{6}}{6}$	0	0	$-\frac{2\sqrt{3}}{3}$	0	
135	$\mathbb{Q}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}}{3}$	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	
		$-\frac{\sqrt{6}}{3}$	0	0	$\frac{2\sqrt{3}}{3}$	0	0	
136	$\mathbb{Q}_{0,0}^{(1,1;a)}$	$-\frac{2\sqrt{3}}{3}$	0	0	0	0	0	
		0	$-\frac{2\sqrt{3}}{3}$	0	0	0	0	
		0	0	$\frac{\sqrt{3}}{3}$	0	0	0	
		0	0	0	$\frac{\sqrt{3}}{3}$	0	0	
		0	0	0	0	$\frac{\sqrt{3}}{3}$	0	
		0	0	0	0	0	$\frac{\sqrt{3}}{3}$	
137	$\mathbb{G}_{1,1}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	
		$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	
		0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	

*continued ...*

Table 5

No.	multipole	matrix						
138	$\mathbb{G}_{1,0}^{(1,0;a)}$	0	0	0	$-i$	0	0	
		0	0	0	0	$-i$	0	
		0	0	0	0	0	0	
		$i$	0	0	0	0	0	
		0	$i$	0	0	0	0	
		0	0	0	0	0	0	
139	$\mathbb{G}_{1,-1}^{(1,0;a)}$	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	
		0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
		$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	
		0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	
140	$\mathbb{T}_{2,2}^{(1,0;a)}$	0	0	0	0	0	$\frac{\sqrt{6}i}{5}$	
		0	0	0	0	0	0	
		0	$\frac{\sqrt{6}i}{5}$	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
141	$\mathbb{T}_{2,1}^{(1,0;a)}$	0	0	0	0	$-\frac{3\sqrt{2}i}{10}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}i}{10}$	
		$-\frac{\sqrt{6}i}{10}$	0	0	0	0	0	
		0	$\frac{3\sqrt{2}i}{10}$	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	

*continued ...*



Table 5

No.	multipole	matrix					
142	$\mathbb{T}_{2,0}^{(1,0;a)}$	0	0	0	$\frac{\sqrt{3}i}{5}$	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0
		0	0	0	0	0	0
		$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0
		0	$\frac{\sqrt{3}i}{5}$	0	0	0	0
		0	0	0	0	0	0
143	$\mathbb{T}_{2,-1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{6}i}{10}$	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{10}$	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		$-\frac{3\sqrt{2}i}{10}$	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{10}$	0	0	0	0
144	$\mathbb{T}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{5}$	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		$-\frac{\sqrt{6}i}{5}$	0	0	0	0	0
145	$\mathbb{M}_{1,1}^{(a)}$	0	$-\frac{2\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0
		0	0	0	0	0	$-\frac{\sqrt{3}}{3}$
		$\frac{\sqrt{3}}{3}$	0	0	$-\frac{\sqrt{6}}{3}$	0	0
		0	$\frac{1}{3}$	0	0	$-\frac{2\sqrt{2}}{3}$	0
		0	0	0	0	0	$-\frac{\sqrt{6}}{3}$
		0	0	0	0	0	0

continued ...

Table 5

No.	multipole	matrix						
146	$\mathbb{M}_{1,0}^{(a)}$	$\frac{2}{3}$	0	0	$\frac{\sqrt{2}}{3}$	0	0	
		0	$-\frac{2}{3}$	0	0	$\frac{\sqrt{2}}{3}$	0	
		0	0	1	0	0	0	
		$\frac{\sqrt{2}}{3}$	0	0	$\frac{1}{3}$	0	0	
		0	$\frac{\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0	
		0	0	0	0	0	-1	
147	$\mathbb{M}_{1,-1}^{(a)}$	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	
		$\frac{2\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0	0	
		0	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}}{3}$	0	0	0	
		$\frac{1}{3}$	0	0	$\frac{2\sqrt{2}}{3}$	0	0	
		0	$\frac{\sqrt{3}}{3}$	0	0	$\frac{\sqrt{6}}{3}$	0	
148	$\mathbb{M}_{1,1}^{(1,-1;a)}$	0	$\frac{\sqrt{2}}{3}$	0	0	$\frac{2}{3}$	0	
		0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	
		$-\frac{2\sqrt{3}}{3}$	0	0	$-\frac{\sqrt{6}}{3}$	0	0	
		0	$-\frac{2}{3}$	0	0	$-\frac{2\sqrt{2}}{3}$	0	
		0	0	0	0	0	$-\frac{\sqrt{6}}{3}$	
		0	0	0	0	0	0	
149	$\mathbb{M}_{1,0}^{(1,-1;a)}$	$-\frac{1}{3}$	0	0	$-\frac{2\sqrt{2}}{3}$	0	0	
		0	$\frac{1}{3}$	0	0	$-\frac{2\sqrt{2}}{3}$	0	
		0	0	1	0	0	0	
		$-\frac{2\sqrt{2}}{3}$	0	0	$\frac{1}{3}$	0	0	
		0	$-\frac{2\sqrt{2}}{3}$	0	0	$-\frac{1}{3}$	0	
		0	0	0	0	0	-1	

*continued ...*

Table 5

No.	multipole	matrix						
150	$\mathbb{M}_{1,-1}^{(1,-1;a)}$	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	
		$-\frac{\sqrt{2}}{3}$	0	0	$\frac{2}{3}$	0	0	
		0	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}}{3}$	0	0	0	
		$-\frac{2}{3}$	0	0	$\frac{2\sqrt{2}}{3}$	0	0	
		0	$-\frac{2\sqrt{3}}{3}$	0	0	$\frac{\sqrt{6}}{3}$	0	
151	$\mathbb{M}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	$\frac{2\sqrt{3}}{5}$	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
152	$\mathbb{M}_{3,2}^{(1,-1;a)}$	0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{6}}{5}$	0	
		0	0	0	0	0	$\frac{\sqrt{6}}{5}$	
		0	0	0	0	0	0	
		0	0	0	0	0	0	
153	$\mathbb{M}_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	
		0	0	0	0	0	0	
		0	0	0	$\frac{2\sqrt{15}}{25}$	0	0	
		0	0	0	0	$-\frac{6\sqrt{5}}{25}$	0	
		0	0	0	0	0	$\frac{2\sqrt{15}}{25}$	
		0	0	0	0	0	0	

*continued ...*

Table 5

No.	multipole	matrix					
154	$\mathbb{M}_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{25}$	0	0	0
		0	0	0	$\frac{3\sqrt{15}}{25}$	0	0
		0	0	0	0	$-\frac{3\sqrt{15}}{25}$	0
		0	0	0	0	0	$\frac{\sqrt{15}}{25}$
155	$\mathbb{M}_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{25}$	0	0	0
		0	0	0	$\frac{6\sqrt{5}}{25}$	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0
156	$\mathbb{M}_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{5}$	0	0	0
		0	0	0	$\frac{\sqrt{6}}{5}$	0	0
157	$\mathbb{M}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0

*continued ...*

Table 5

No.	multipole	matrix					
158	$\mathbb{M}_{1,1}^{(1,1;a)}$	0	$-\frac{4\sqrt{5}}{15}$	0	0	$\frac{\sqrt{10}}{30}$	0
		0	0	0	0	0	$\frac{\sqrt{30}}{30}$
		$-\frac{\sqrt{30}}{30}$	0	0	$\frac{2\sqrt{15}}{75}$	0	0
		0	$-\frac{\sqrt{10}}{30}$	0	0	$\frac{4\sqrt{5}}{75}$	0
		0	0	0	0	0	$\frac{2\sqrt{15}}{75}$
		0	0	0	0	0	0
159	$\mathbb{M}_{1,0}^{(1,1;a)}$	$\frac{2\sqrt{10}}{15}$	0	0	$-\frac{\sqrt{5}}{15}$	0	0
		0	$-\frac{2\sqrt{10}}{15}$	0	0	$-\frac{\sqrt{5}}{15}$	0
		0	0	$-\frac{\sqrt{10}}{25}$	0	0	0
		$-\frac{\sqrt{5}}{15}$	0	0	$-\frac{\sqrt{10}}{75}$	0	0
		0	$-\frac{\sqrt{5}}{15}$	0	0	$\frac{\sqrt{10}}{75}$	0
		0	0	0	0	0	$\frac{\sqrt{10}}{25}$
160	$\mathbb{M}_{1,-1}^{(1,1;a)}$	0	0	$\frac{\sqrt{30}}{30}$	0	0	0
		$\frac{4\sqrt{5}}{15}$	0	0	$\frac{\sqrt{10}}{30}$	0	0
		0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{75}$	0	0	0
		$-\frac{\sqrt{10}}{30}$	0	0	$-\frac{4\sqrt{5}}{75}$	0	0
		0	$-\frac{\sqrt{30}}{30}$	0	0	$-\frac{2\sqrt{15}}{75}$	0

$$\text{bra:} = |\frac{1}{2}, \frac{1}{2}; p\rangle, |\frac{1}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, \frac{3}{2}; p\rangle, |\frac{3}{2}, \frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{1}{2}; p\rangle, |\frac{3}{2}, -\frac{3}{2}; p\rangle$$

$$\text{ket:} = |\frac{3}{2}, \frac{3}{2}; d\rangle, |\frac{3}{2}, \frac{1}{2}; d\rangle, |\frac{3}{2}, -\frac{1}{2}; d\rangle, |\frac{3}{2}, -\frac{3}{2}; d\rangle, |\frac{5}{2}, \frac{5}{2}; d\rangle, |\frac{5}{2}, \frac{3}{2}; d\rangle, |\frac{5}{2}, \frac{1}{2}; d\rangle, |\frac{5}{2}, -\frac{1}{2}; d\rangle, |\frac{5}{2}, -\frac{3}{2}; d\rangle, |\frac{5}{2}, -\frac{5}{2}; d\rangle$$

Table 6: (p,d) block.

No.	multipole	matrix									
161	$\mathbb{Q}_{1,1}^{(a)}$	0	0	$-\frac{1}{3}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0
		0	$\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{1}{5}$	0	0	0
		0	0	$\frac{2\sqrt{2}}{15}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0
		0	0	0	$\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{5}$
162	$\mathbb{Q}_{1,0}^{(a)}$	0	$\frac{\sqrt{2}}{3}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2}}{3}$	0	0	0	0	0	0	0
		$-\frac{1}{5}$	0	0	0	0	0	$\frac{2}{5}$	0	0	0
		0	$-\frac{1}{15}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0
		0	0	$\frac{1}{15}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0
		0	0	0	$\frac{1}{5}$	0	0	0	0	$\frac{2}{5}$	0
163	$\mathbb{Q}_{1,-1}^{(a)}$	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{1}{3}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{2}}{15}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{1}{5}$	0	0
164	$\mathbb{Q}_{3,3}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 6

No.	multipole	matrix									
165	$Q_{3,2}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	
		0	0	0	0	0	0	0	0	$\frac{1}{7}$	
		0	0	$\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0
		0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	
166	$Q_{3,1}^{(a)}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	
		0	$-\frac{6}{35}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0
		0	0	$\frac{6\sqrt{3}}{35}$	0	0	0	0	$-\frac{\sqrt{2}}{35}$	0	0
		0	0	0	$-\frac{6}{35}$	0	0	0	0	$-\frac{1}{5}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	
167	$Q_{3,0}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0
		$\frac{3}{35}$	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
		0	$-\frac{9}{35}$	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0
		0	0	$\frac{9}{35}$	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0
		0	0	0	$-\frac{3}{35}$	0	0	0	0	$-\frac{6}{35}$	0
168	$Q_{3,-1}^{(a)}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	0
		$\frac{6}{35}$	0	0	0	0	$-\frac{1}{5}$	0	0	0	0
		0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	$-\frac{\sqrt{2}}{35}$	0	0	0
		0	0	$\frac{6}{35}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0

*continued ...*

Table 6

No.	multipole	matrix										
169	$\mathbb{Q}_{3,-2}^{(a)}$	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0
		$\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0
		0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0
170	$\mathbb{Q}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0
		$\frac{6\sqrt{5}}{35}$	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0
171	$\mathbb{Q}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{4\sqrt{10}}{15}$	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{15}$	0	0	0	0	$-\frac{8\sqrt{3}}{15}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{15}$	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
172	$\mathbb{Q}_{3,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{9}$	0	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}}{45}$	0
		0	0	$\frac{2\sqrt{6}}{15}$	0	0	0	0	$\frac{16}{15}$	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0	$\frac{8\sqrt{6}}{45}$	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{45}$	0
		0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 6

No.	multipole	matrix									
173	$\mathbb{Q}_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{8\sqrt{15}}{45}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{45}$	0
		0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$-\frac{8\sqrt{10}}{25}$	0	0	0
		0	0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{8\sqrt{30}}{225}$	0	0
		0	0	0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$\frac{56\sqrt{15}}{225}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8}{15}$
174	$\mathbb{Q}_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{15}$	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{15}$	0	0
		$\frac{2\sqrt{15}}{75}$	0	0	0	0	$\frac{16\sqrt{15}}{75}$	0	0	0	0
		0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0	$-\frac{16\sqrt{10}}{75}$	0	0	0
		0	0	$\frac{2\sqrt{15}}{25}$	0	0	0	0	$-\frac{16\sqrt{10}}{75}$	0	0
		0	0	0	$-\frac{2\sqrt{15}}{75}$	0	0	0	0	$\frac{16\sqrt{15}}{75}$	0
175	$\mathbb{Q}_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	$\frac{4\sqrt{30}}{45}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{15}}{45}$	0	0	0
		0	0	0	0	$-\frac{8}{15}$	0	0	0	0	0
		$\frac{4\sqrt{15}}{75}$	0	0	0	0	$\frac{56\sqrt{15}}{225}$	0	0	0	0
		0	$-\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{8\sqrt{30}}{225}$	0	0	0
		0	0	$\frac{4\sqrt{15}}{75}$	0	0	0	0	$-\frac{8\sqrt{10}}{25}$	0	0
176	$\mathbb{Q}_{3,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{4\sqrt{15}}{45}$	0	0	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{3}}{9}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{30}}{45}$	0	0	0	0	0
		$\frac{2\sqrt{6}}{15}$	0	0	0	0	$\frac{8\sqrt{6}}{45}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0	$\frac{16}{15}$	0	0	0

*continued ...*

Table 6

No.	multipole	matrix									
177	$\mathbb{Q}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}}{15}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{5}}{15}$	0	0	0	0	0
		$\frac{4\sqrt{3}}{15}$	0	0	0	0	$-\frac{8\sqrt{3}}{15}$	0	0	0	0
178	$\mathbb{Q}_{1,1}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}}{9}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{9}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{\sqrt{2}}{15}$	0	0	0
		0	0	$-\frac{16}{45}$	0	0	0	0	$-\frac{\sqrt{6}}{15}$	0	0
		0	0	0	$-\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{2\sqrt{3}}{15}$	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{15}$	0
179	$\mathbb{Q}_{1,0}^{(1,0;a)}$	0	$-\frac{2}{9}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2}{9}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{2}}{15}$	0	0	0	0	$\frac{2\sqrt{2}}{15}$	0	0	0	0
		0	$\frac{4\sqrt{2}}{45}$	0	0	0	0	$\frac{2\sqrt{3}}{15}$	0	0	0
		0	0	$-\frac{4\sqrt{2}}{45}$	0	0	0	0	$\frac{2\sqrt{3}}{15}$	0	0
		0	0	0	$-\frac{4\sqrt{2}}{15}$	0	0	0	0	$\frac{2\sqrt{2}}{15}$	0
180	$\mathbb{Q}_{1,-1}^{(1,0;a)}$	$\frac{\sqrt{6}}{9}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{2}}{9}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{15}$	0	0	0	0	0
		$\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{2\sqrt{3}}{15}$	0	0	0	0
		0	$\frac{16}{45}$	0	0	0	0	$-\frac{\sqrt{6}}{15}$	0	0	0
		0	0	$\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{\sqrt{2}}{15}$	0	0

*continued ...*

Table 6

No.	multipole	matrix										
181	$\mathbb{Q}_{3,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}}{35}$		
		0	0	0	0	0	0	0	0	0		
		0	0	0	$\frac{4\sqrt{15}}{175}$	0	0	0	0	$\frac{\sqrt{15}}{350}$	0	
		0	0	0	0	0	0	0	0	$\frac{1}{70}$		
		0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0		
182	$\mathbb{Q}_{3,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0		
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{105}$		
		0	0	$-\frac{2\sqrt{30}}{175}$	0	0	0	0	$-\frac{\sqrt{5}}{175}$	0	0	
		0	0	0	$\frac{2\sqrt{30}}{175}$	0	0	0	0	$-\frac{\sqrt{30}}{1050}$	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{210}$		
		0	0	0	0	0	0	0	0	0		
183	$\mathbb{Q}_{3,1}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{4\sqrt{3}}{105}$	0	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{105}$	0	
		0	$\frac{4\sqrt{3}}{175}$	0	0	0	0	$\frac{3\sqrt{2}}{350}$	0	0	0	
		0	0	$-\frac{12}{175}$	0	0	0	0	$-\frac{\sqrt{6}}{1050}$	0	0	
		0	0	0	$\frac{4\sqrt{3}}{175}$	0	0	0	0	$-\frac{\sqrt{3}}{150}$	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{350}$		
184	$\mathbb{Q}_{3,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{2}{35}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2}{35}$	0	0	
		$-\frac{2\sqrt{3}}{175}$	0	0	0	0	0	$-\frac{\sqrt{3}}{175}$	0	0	0	0
		0	$\frac{6\sqrt{3}}{175}$	0	0	0	0	0	$\frac{\sqrt{2}}{175}$	0	0	0
		0	0	$-\frac{6\sqrt{3}}{175}$	0	0	0	0	$\frac{\sqrt{2}}{175}$	0	0	
		0	0	0	$\frac{2\sqrt{3}}{175}$	0	0	0	0	$-\frac{\sqrt{3}}{175}$	0	

continued ...

Table 6

No.	multipole	matrix									
185	$\mathbb{Q}_{3,-1}^{(1,0;a)}$	0	0	0	0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{3}}{105}$	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{350}$	0	0	0	0	0
		$-\frac{4\sqrt{3}}{175}$	0	0	0	0	$-\frac{\sqrt{3}}{150}$	0	0	0	0
		0	$\frac{12}{175}$	0	0	0	0	$-\frac{\sqrt{6}}{1050}$	0	0	0
		0	0	$-\frac{4\sqrt{3}}{175}$	0	0	0	0	$\frac{3\sqrt{2}}{350}$	0	0
186	$\mathbb{Q}_{3,-2}^{(1,0;a)}$	0	0	0	0	$-\frac{2\sqrt{3}}{105}$	0	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}}{210}$	0	0	0	0	0
		$-\frac{2\sqrt{30}}{175}$	0	0	0	0	$-\frac{\sqrt{30}}{1050}$	0	0	0	0
		0	$\frac{2\sqrt{30}}{175}$	0	0	0	0	$-\frac{\sqrt{5}}{175}$	0	0	0
187	$\mathbb{Q}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{2}}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{1}{70}$	0	0	0	0	0
		$-\frac{4\sqrt{15}}{175}$	0	0	0	0	$\frac{\sqrt{15}}{350}$	0	0	0	0
188	$\mathbb{Q}_{1,1}^{(1,1;a)}$	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{30}}{5}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0	0	0
		0	0	$\frac{8\sqrt{5}}{25}$	0	0	0	0	$-\frac{\sqrt{30}}{25}$	0	0
		0	0	0	$\frac{4\sqrt{15}}{25}$	0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0
		0	0	0	0	0	0	0	0	$-\frac{2}{5}$	0

continued ...

Table 6

No.	multipole	matrix									
189	$\mathbb{Q}_{1,0}^{(1,1;a)}$	0	$-\frac{2\sqrt{5}}{5}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}}{5}$	0	0	0	0	0	0	0
		$-\frac{6\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{10}}{25}$	0	0	0	0
		0	$-\frac{2\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{15}}{25}$	0	0	0
		0	0	$\frac{2\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{15}}{25}$	0	0
		0	0	0	$\frac{6\sqrt{10}}{25}$	0	0	0	0	$\frac{2\sqrt{10}}{25}$	0
190	$\mathbb{Q}_{1,-1}^{(1,1;a)}$	$\frac{\sqrt{30}}{5}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2}{5}$	0	0	0	0	0
		$-\frac{4\sqrt{15}}{25}$	0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0
		0	$-\frac{8\sqrt{5}}{25}$	0	0	0	0	$-\frac{\sqrt{30}}{25}$	0	0	0
		0	0	$-\frac{4\sqrt{15}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0	0
191	$\mathbb{G}_{2,2}^{(a)}$	0	0	0	$\frac{4i}{15}$	0	0	0	0	$\frac{4i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{45}$
		0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0
		0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{8\sqrt{2}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{10}i}{45}$
		0	0	0	0	0	0	0	0	0	0
192	$\mathbb{G}_{2,1}^{(a)}$	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	$-\frac{4\sqrt{2}i}{45}$	0	0
		0	0	0	$\frac{2i}{15}$	0	0	0	0	$-\frac{8i}{45}$	0
		0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{2i}{9}$	0	0
		0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{2\sqrt{2}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{45}$

continued ...

Table 6

No.	multipole	matrix									
193	$\mathbb{G}_{2,0}^{(a)}$	0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0
		0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0
		$-\frac{2i}{15}$	0	0	0	0	$\frac{4i}{15}$	0	0	0	0
		0	$\frac{2i}{15}$	0	0	0	0	$\frac{2\sqrt{6}i}{45}$	0	0	0
		0	0	$\frac{2i}{15}$	0	0	0	0	$-\frac{2\sqrt{6}i}{45}$	0	0
		0	0	0	$-\frac{2i}{15}$	0	0	0	0	$-\frac{4i}{15}$	0
194	$\mathbb{G}_{2,-1}^{(a)}$	$-\frac{2i}{15}$	0	0	0	0	$-\frac{8i}{45}$	0	0	0	0
		0	$\frac{2\sqrt{3}i}{15}$	0	0	0	0	$-\frac{4\sqrt{2}i}{45}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{30}i}{45}$	0	0	0	0	0
		$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{2\sqrt{2}i}{45}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2i}{9}$	0	0	0
		0	0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$\frac{2\sqrt{3}i}{15}$	0	0
195	$\mathbb{G}_{2,-2}^{(a)}$	0	0	0	0	$\frac{4\sqrt{5}i}{45}$	0	0	0	0	0
		$-\frac{4i}{15}$	0	0	0	0	$\frac{4i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}i}{45}$	0	0	0	0	0
		$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{8\sqrt{2}i}{45}$	0	0	0	0
		0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{4\sqrt{3}i}{45}$	0	0	0
196	$\mathbb{G}_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{4\sqrt{6}i}{45}$	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{45}$	0
		0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$\frac{2\sqrt{2}i}{15}$	0	0
		0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$\frac{8\sqrt{3}i}{45}$	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{45}$	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 6

No.	multipole	matrix									
197	$\mathbb{G}_{2,1}^{(1,-1;a)}$	0	0	$\frac{\sqrt{2}i}{15}$	0	0	0	0	$\frac{8\sqrt{3}i}{45}$	0	0
		0	0	0	$-\frac{\sqrt{6}i}{45}$	0	0	0	0	$\frac{8\sqrt{6}i}{45}$	0
		0	$-\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{9}$	0	0
		0	0	0	$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{2\sqrt{3}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{15}$
198	$\mathbb{G}_{2,0}^{(1,-1;a)}$	0	$-\frac{2\sqrt{3}i}{45}$	0	0	0	0	$-\frac{4\sqrt{2}i}{15}$	0	0	0
		0	0	$\frac{2\sqrt{3}i}{45}$	0	0	0	0	$-\frac{4\sqrt{2}i}{15}$	0	0
		$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0	0	0	0
		0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{2i}{15}$	0	0	0
		0	0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2i}{15}$	0	0
		0	0	0	$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	0
199	$\mathbb{G}_{2,-1}^{(1,-1;a)}$	$\frac{\sqrt{6}i}{45}$	0	0	0	0	$\frac{8\sqrt{6}i}{45}$	0	0	0	0
		0	$-\frac{\sqrt{2}i}{15}$	0	0	0	0	$\frac{8\sqrt{3}i}{45}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$\frac{2\sqrt{3}i}{45}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}i}{9}$	0	0	0
		0	0	$-\frac{4\sqrt{3}i}{45}$	0	0	0	0	$\frac{\sqrt{2}i}{5}$	0	0
200	$\mathbb{G}_{2,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{4\sqrt{30}i}{45}$	0	0	0	0	0
		$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{4\sqrt{6}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}i}{45}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{8\sqrt{3}i}{45}$	0	0	0	0
		0	$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0	0

continued ...

Table 6

No.	multipole	matrix										
201	$\mathbb{G}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{35}$	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
202	$\mathbb{G}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{5}i}{70}$	0	
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{70}$	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
203	$\mathbb{G}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{3\sqrt{35}i}{245}$	0	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{210}i}{490}$	0	
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{490}$	
		0	0	0	0	0	0	0	0	0	0	
204	$\mathbb{G}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{3\sqrt{70}i}{490}$	0	0	0	
		0	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{490}$	0	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{490}$	0	
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{490}$	

continued ...



Table 6

No.	multipole	matrix									
205	$\mathbb{G}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{42}i}{245}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{245}$	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{245}$	0
206	$\mathbb{G}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{7}i}{490}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{105}i}{490}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{210}i}{490}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{70}i}{490}$	0	0
207	$\mathbb{G}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{42}i}{490}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{210}i}{490}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{35}i}{245}$	0	0	0
208	$\mathbb{G}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}i}{70}$	0	0	0	0

continued ...

Table 6

No.	multipole	matrix									
209	$\mathbb{G}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0
210	$\mathbb{G}_{2,2}^{(1,0;a)}$	0	0	0	$\frac{2\sqrt{6}i}{15}$	0	0	0	0	$-\frac{8\sqrt{6}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{45}$
		0	0	$-\frac{8\sqrt{3}i}{15}$	0	0	0	0	$-\frac{2\sqrt{2}i}{15}$	0	0
		0	0	0	$-\frac{8\sqrt{3}i}{15}$	0	0	0	0	$-\frac{8\sqrt{3}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{45}$
		0	0	0	0	0	0	0	0	0	0
211	$\mathbb{G}_{2,1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}i}{5}$	0	0	0	0	$\frac{16\sqrt{3}i}{45}$	0	0
		0	0	0	$\frac{\sqrt{6}i}{15}$	0	0	0	0	$\frac{16\sqrt{6}i}{45}$	0
		0	$\frac{8\sqrt{3}i}{15}$	0	0	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{9}$	0	0
		0	0	0	$-\frac{8\sqrt{3}i}{15}$	0	0	0	0	$\frac{2\sqrt{3}i}{45}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{15}$
212	$\mathbb{G}_{2,0}^{(1,0;a)}$	0	$\frac{2\sqrt{3}i}{15}$	0	0	0	0	$-\frac{8\sqrt{2}i}{15}$	0	0	0
		0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	$-\frac{8\sqrt{2}i}{15}$	0	0
		$-\frac{4\sqrt{6}i}{15}$	0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	0	0	0	0
		0	$\frac{4\sqrt{6}i}{15}$	0	0	0	0	$-\frac{2i}{15}$	0	0	0
		0	0	$\frac{4\sqrt{6}i}{15}$	0	0	0	0	$\frac{2i}{15}$	0	0
		0	0	0	$-\frac{4\sqrt{6}i}{15}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0

continued ...

Table 6

No.	multipole	matrix											
213	$\mathbb{G}_{2,-1}^{(1,0;a)}$	$-\frac{\sqrt{6}i}{15}$	0	0	0	0	$\frac{16\sqrt{6}i}{45}$	0	0	0	0	0	0
		0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	$\frac{16\sqrt{3}i}{45}$	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{3}i}{15}$	0	0	0	0	$-\frac{2\sqrt{3}i}{45}$	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{6}i}{9}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{3}i}{15}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0	0	0	0
214	$\mathbb{G}_{2,-2}^{(1,0;a)}$	0	0	0	0	$-\frac{8\sqrt{30}i}{45}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}i}{15}$	0	0	0	0	$-\frac{8\sqrt{6}i}{45}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}i}{45}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{3}i}{15}$	0	0	0	0	$\frac{8\sqrt{3}i}{45}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{3}i}{15}$	0	0	0	0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	0
215	$\mathbb{G}_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{3}i}{9}$	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{3}i}{9}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}i}{9}$	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{3}i}{9}$	0	0	0	0	0	0	0	0
216	$\mathbb{G}_{2,2}^{(1,1;a)}$	0	0	0	$\frac{4\sqrt{21}i}{175}$	0	0	0	0	$-\frac{\sqrt{21}i}{525}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{525}$	0	0
		0	0	$\frac{\sqrt{42}i}{175}$	0	0	0	0	$-\frac{4\sqrt{7}i}{1225}$	0	0	0	0
		0	0	0	$\frac{\sqrt{42}i}{175}$	0	0	0	0	$-\frac{8\sqrt{42}i}{3675}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{3675}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 6

No.	multipole	matrix									
217	$\mathbb{G}_{2,1}^{(1,1;a)}$	0	0	$-\frac{6\sqrt{7}i}{175}$	0	0	0	$\frac{\sqrt{42}i}{525}$	0	0	
		0	0	0	$\frac{2\sqrt{21}i}{175}$	0	0	0	$\frac{2\sqrt{21}i}{525}$	0	
		0	$-\frac{\sqrt{42}i}{175}$	0	0	0	0	$\frac{6\sqrt{7}i}{1225}$	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{21}i}{735}$	0	0	
		0	0	0	$\frac{\sqrt{42}i}{175}$	0	0	0	$\frac{2\sqrt{42}i}{3675}$	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{1225}$	
218	$\mathbb{G}_{2,0}^{(1,1;a)}$	0	$\frac{2\sqrt{42}i}{175}$	0	0	0	0	$-\frac{\sqrt{7}i}{175}$	0	0	0
		0	0	$-\frac{2\sqrt{42}i}{175}$	0	0	0	0	$-\frac{\sqrt{7}i}{175}$	0	0
		$\frac{\sqrt{21}i}{175}$	0	0	0	0	$-\frac{4\sqrt{21}i}{1225}$	0	0	0	0
		0	$-\frac{\sqrt{21}i}{175}$	0	0	0	0	$-\frac{2\sqrt{14}i}{1225}$	0	0	0
		0	0	$-\frac{\sqrt{21}i}{175}$	0	0	0	0	$\frac{2\sqrt{14}i}{1225}$	0	0
		0	0	0	$\frac{\sqrt{21}i}{175}$	0	0	0	0	$\frac{4\sqrt{21}i}{1225}$	0
219	$\mathbb{G}_{2,-1}^{(1,1;a)}$	$-\frac{2\sqrt{21}i}{175}$	0	0	0	0	$\frac{2\sqrt{21}i}{525}$	0	0	0	0
		0	$\frac{6\sqrt{7}i}{175}$	0	0	0	0	$\frac{\sqrt{42}i}{525}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}i}{1225}$	0	0	0	0	0
		$\frac{\sqrt{42}i}{175}$	0	0	0	0	$-\frac{2\sqrt{42}i}{3675}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{735}$	0	0	0
		0	0	$-\frac{\sqrt{42}i}{175}$	0	0	0	0	$-\frac{6\sqrt{7}i}{1225}$	0	0
220	$\mathbb{G}_{2,-2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{105}i}{525}$	0	0	0	0	0
		$-\frac{4\sqrt{21}i}{175}$	0	0	0	0	$-\frac{\sqrt{21}i}{525}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{210}i}{3675}$	0	0	0	0	0
		$\frac{\sqrt{42}i}{175}$	0	0	0	0	$\frac{8\sqrt{42}i}{3675}$	0	0	0	0
		0	$\frac{\sqrt{42}i}{175}$	0	0	0	0	$\frac{4\sqrt{7}i}{1225}$	0	0	0

continued ...

Table 6

No.	multipole	matrix									
221	$\mathbb{T}_{1,1}^{(a)}$	0	0	$-\frac{2i}{9}$	0	0	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{3}i}{9}$	0	0	0	0	0	
		0	$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2i}{15}$	0	0	
		0	0	$\frac{4\sqrt{2}i}{45}$	0	0	0	0	$-\frac{2\sqrt{3}i}{15}$	0	
		0	0	0	$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{15}$	
222	$\mathbb{T}_{1,0}^{(a)}$	0	$\frac{2\sqrt{2}i}{9}$	0	0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{2}i}{9}$	0	0	0	0	0	0	
		$-\frac{2i}{15}$	0	0	0	0	$\frac{4i}{15}$	0	0	0	
		0	$-\frac{2i}{45}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0	0	
		0	0	$\frac{2i}{45}$	0	0	0	0	$\frac{2\sqrt{6}i}{15}$	0	
		0	0	0	$\frac{2i}{15}$	0	0	0	0	$\frac{4i}{15}$	
223	$\mathbb{T}_{1,-1}^{(a)}$	$-\frac{2\sqrt{3}i}{9}$	0	0	0	0	0	0	0	0	
		0	$-\frac{2i}{9}$	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{10}i}{15}$	0	0	0	0	
		$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	0	0	0	
		0	$-\frac{4\sqrt{2}i}{45}$	0	0	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	
		0	0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$-\frac{2i}{15}$	0	
224	$\mathbb{T}_{3,3}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{35}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{6\sqrt{5}i}{175}$	0	0	0	0	$\frac{3\sqrt{5}i}{175}$	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	

continued ...

Table 6

No.	multipole	matrix									
225	$\mathbb{T}_{3,2}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	
		0	0	0	0	0	0	0	0	$\frac{i}{35}$	
		0	0	$\frac{3\sqrt{10}i}{175}$	0	0	0	0	$-\frac{2\sqrt{15}i}{175}$	0	0
		0	0	0	$-\frac{3\sqrt{10}i}{175}$	0	0	0	0	$-\frac{\sqrt{10}i}{175}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	
		0	0	0	0	0	0	0	0	0	0
226	$\mathbb{T}_{3,1}^{(a)}$	0	0	0	0	0	0	0	$\frac{2i}{35}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0
		0	$-\frac{6i}{175}$	0	0	0	0	$\frac{3\sqrt{6}i}{175}$	0	0	0
		0	0	$\frac{6\sqrt{3}i}{175}$	0	0	0	0	$-\frac{\sqrt{2}i}{175}$	0	0
		0	0	0	$-\frac{6i}{175}$	0	0	0	0	$-\frac{i}{25}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{175}$
227	$\mathbb{T}_{3,0}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0
		$\frac{3i}{175}$	0	0	0	0	$-\frac{6i}{175}$	0	0	0	0
		0	$-\frac{9i}{175}$	0	0	0	0	$\frac{2\sqrt{6}i}{175}$	0	0	0
		0	0	$\frac{9i}{175}$	0	0	0	0	$\frac{2\sqrt{6}i}{175}$	0	0
		0	0	0	$-\frac{3i}{175}$	0	0	0	0	$-\frac{6i}{175}$	0
228	$\mathbb{T}_{3,-1}^{(a)}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{2i}{35}$	0	0
		0	0	0	0	$\frac{\sqrt{15}i}{175}$	0	0	0	0	0
		$\frac{6i}{175}$	0	0	0	0	$-\frac{i}{25}$	0	0	0	0
		0	$-\frac{6\sqrt{3}i}{175}$	0	0	0	0	$-\frac{\sqrt{2}i}{175}$	0	0	0
		0	0	$\frac{6i}{175}$	0	0	0	0	$\frac{3\sqrt{6}i}{175}$	0	0

*continued ...*

Table 6

No.	multipole	matrix									
229	$\mathbb{T}_{3,-2}^{(a)}$	0	0	0	0	$-\frac{i}{35}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}i}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0
		$\frac{3\sqrt{10}i}{175}$	0	0	0	0	$-\frac{\sqrt{10}i}{175}$	0	0	0	0
		0	$-\frac{3\sqrt{10}i}{175}$	0	0	0	0	$-\frac{2\sqrt{15}i}{175}$	0	0	0
230	$\mathbb{T}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0
		$\frac{6\sqrt{5}i}{175}$	0	0	0	0	$\frac{3\sqrt{5}i}{175}$	0	0	0	0
231	$\mathbb{T}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{4\sqrt{10}i}{45}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{8\sqrt{3}i}{45}$	0
		0	0	0	0	0	0	0	0	$-\frac{8\sqrt{5}i}{45}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
232	$\mathbb{T}_{3,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{27}$	0	
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{135}$	
		0	0	$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{16i}{45}$	0	
		0	0	0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{8\sqrt{6}i}{135}$	0
		0	0	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{135}$	
		0	0	0	0	0	0	0	0	0	

*continued ...*

Table 6

No.	multipole	matrix									
233	$\mathbb{T}_{3,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{8\sqrt{15}i}{135}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{135}$	0
		0	$-\frac{4\sqrt{15}i}{225}$	0	0	0	0	$-\frac{8\sqrt{10}i}{75}$	0	0	0
		0	0	$\frac{4\sqrt{5}i}{75}$	0	0	0	0	$\frac{8\sqrt{30}i}{675}$	0	0
		0	0	0	$-\frac{4\sqrt{15}i}{225}$	0	0	0	0	$\frac{56\sqrt{15}i}{675}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8i}{45}$
234	$\mathbb{T}_{3,0}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{45}$	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{45}$	0	0
		$\frac{2\sqrt{15}i}{225}$	0	0	0	0	$\frac{16\sqrt{15}i}{225}$	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{75}$	0	0	0	0	$-\frac{16\sqrt{10}i}{225}$	0	0	0
		0	0	$\frac{2\sqrt{15}i}{75}$	0	0	0	0	$-\frac{16\sqrt{10}i}{225}$	0	0
		0	0	0	$-\frac{2\sqrt{15}i}{225}$	0	0	0	0	$\frac{16\sqrt{15}i}{225}$	0
235	$\mathbb{T}_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{135}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{15}i}{135}$	0	0	0
		0	0	0	0	$-\frac{8i}{45}$	0	0	0	0	0
		$\frac{4\sqrt{15}i}{225}$	0	0	0	0	$\frac{56\sqrt{15}i}{675}$	0	0	0	0
		0	$-\frac{4\sqrt{5}i}{75}$	0	0	0	0	$\frac{8\sqrt{30}i}{675}$	0	0	0
		0	0	$\frac{4\sqrt{15}i}{225}$	0	0	0	0	$-\frac{8\sqrt{10}i}{75}$	0	0
236	$\mathbb{T}_{3,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{4\sqrt{15}i}{135}$	0	0	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{3}i}{27}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{30}i}{135}$	0	0	0	0	0
		$\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{8\sqrt{6}i}{135}$	0	0	0	0
		0	$-\frac{2\sqrt{6}i}{45}$	0	0	0	0	$\frac{16i}{45}$	0	0	0

continued ...



Table 6

No.	multipole	matrix									
237	$\mathbb{T}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}i}{45}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{5}i}{45}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{45}$	0	0	0	0	$-\frac{8\sqrt{3}i}{45}$	0	0	0	0
238	$\mathbb{T}_{1,1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}i}{15}$	0	0	0	0	$\frac{\sqrt{2}i}{10}$	0	0	0
		0	0	$\frac{8i}{15}$	0	0	0	0	$\frac{\sqrt{6}i}{10}$	0	0
		0	0	0	$\frac{4\sqrt{3}i}{15}$	0	0	0	0	$\frac{\sqrt{3}i}{5}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{5}$	0
239	$\mathbb{T}_{1,0}^{(1,0;a)}$	0	$\frac{i}{3}$	0	0	0	0	0	0	0	0
		0	0	$\frac{i}{3}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{2}i}{5}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0
		0	0	$\frac{2\sqrt{2}i}{15}$	0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0
		0	0	0	$\frac{2\sqrt{2}i}{5}$	0	0	0	0	$-\frac{\sqrt{2}i}{5}$	0
240	$\mathbb{T}_{1,-1}^{(1,0;a)}$	$-\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{5}i}{5}$	0	0	0	0	0
		$-\frac{4\sqrt{3}i}{15}$	0	0	0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0
		0	$-\frac{8i}{15}$	0	0	0	0	$\frac{\sqrt{6}i}{10}$	0	0	0
		0	0	$-\frac{4\sqrt{3}i}{15}$	0	0	0	0	$\frac{\sqrt{2}i}{10}$	0	0

continued ...

Table 6

No.	multipole	matrix									
241	$\mathbb{T}_{3,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	$-\frac{\sqrt{15}i}{70}$	0
		0	0	0	0	0	0	0	0	$-\frac{i}{14}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
242	$\mathbb{T}_{3,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{21}$	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{21}$	
		0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	$\frac{\sqrt{5}i}{35}$	0	0
		0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	$\frac{\sqrt{30}i}{210}$	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{42}$	
		0	0	0	0	0	0	0	0	0	
243	$\mathbb{T}_{3,1}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{21}$	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0
		0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0	0
		0	0	$\frac{12i}{35}$	0	0	0	0	$\frac{\sqrt{6}i}{210}$	0	0
		0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	$\frac{\sqrt{3}i}{30}$	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{70}$	
244	$\mathbb{T}_{3,0}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{2i}{7}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{2i}{7}$	0	0
		$\frac{2\sqrt{3}i}{35}$	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0
		0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0
		0	0	$\frac{6\sqrt{3}i}{35}$	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0
		0	0	0	$-\frac{2\sqrt{3}i}{35}$	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0

continued ...

Table 6

No.	multipole	matrix									
245	$\mathbb{T}_{3,-1}^{(1,0;a)}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{3}i}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{5}i}{70}$	0	0	0	0	0
		$\frac{4\sqrt{3}i}{35}$	0	0	0	0	$\frac{\sqrt{3}i}{30}$	0	0	0	0
		0	$-\frac{12i}{35}$	0	0	0	0	$\frac{\sqrt{6}i}{210}$	0	0	0
		0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0
246	$\mathbb{T}_{3,-2}^{(1,0;a)}$	0	0	0	0	$\frac{2\sqrt{3}i}{21}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{42}$	0	0	0	0	0
		$\frac{2\sqrt{30}i}{35}$	0	0	0	0	$\frac{\sqrt{30}i}{210}$	0	0	0	0
		0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	$\frac{\sqrt{5}i}{35}$	0	0	0
247	$\mathbb{T}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{2}i}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{i}{14}$	0	0	0	0	0
		$\frac{4\sqrt{15}i}{35}$	0	0	0	0	$-\frac{\sqrt{15}i}{70}$	0	0	0	0
248	$\mathbb{T}_{1,1}^{(1,1;a)}$	0	0	$\frac{\sqrt{10}i}{15}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}i}{75}$	0	0	0	0	$-\frac{\sqrt{10}i}{75}$	0	0	0
		0	0	$\frac{8\sqrt{5}i}{75}$	0	0	0	0	$-\frac{\sqrt{30}i}{75}$	0	0
		0	0	0	$\frac{4\sqrt{15}i}{75}$	0	0	0	0	$-\frac{2\sqrt{15}i}{75}$	0
		0	0	0	0	0	0	0	0	$-\frac{2i}{15}$	0

continued ...

Table 6

No.	multipole	matrix									
249	$\mathbb{T}_{1,0}^{(1,1;a)}$	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{10}i}{25}$	0	0	0	0	$\frac{2\sqrt{10}i}{75}$	0	0	0	0
		0	$-\frac{2\sqrt{10}i}{75}$	0	0	0	0	$\frac{2\sqrt{15}i}{75}$	0	0	0
		0	0	$\frac{2\sqrt{10}i}{75}$	0	0	0	0	$\frac{2\sqrt{15}i}{75}$	0	0
		0	0	0	$\frac{2\sqrt{10}i}{25}$	0	0	0	0	$\frac{2\sqrt{10}i}{75}$	0
250	$\mathbb{T}_{1,-1}^{(1,1;a)}$	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{15}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2i}{15}$	0	0	0	0	0
		$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	$-\frac{2\sqrt{15}i}{75}$	0	0	0	0
		0	$-\frac{8\sqrt{5}i}{75}$	0	0	0	0	$-\frac{\sqrt{30}i}{75}$	0	0	0
		0	0	$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	$-\frac{\sqrt{10}i}{75}$	0	0
251	$\mathbb{M}_{2,2}^{(a)}$	0	0	0	$\frac{4}{5}$	0	0	0	0	$\frac{4}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{15}$
		0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0
		0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{8\sqrt{2}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{10}}{15}$
		0	0	0	0	0	0	0	0	0	0
252	$\mathbb{M}_{2,1}^{(a)}$	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{15}$	0	0
		0	0	0	$\frac{2}{5}$	0	0	0	0	$-\frac{8}{15}$	0
		0	$\frac{2\sqrt{2}}{5}$	0	0	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{2}{3}$	0	0
		0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$-\frac{2\sqrt{2}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{15}$

continued ...

Table 6

No.	multipole	matrix									
253	$\mathbb{M}_{2,0}^{(a)}$	0	$\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0	0
		0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0
		$-\frac{2}{5}$	0	0	0	0	$\frac{4}{5}$	0	0	0	0
		0	$\frac{2}{5}$	0	0	0	0	$\frac{2\sqrt{6}}{15}$	0	0	0
		0	0	$\frac{2}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0	0
		0	0	0	$-\frac{2}{5}$	0	0	0	0	$-\frac{4}{5}$	0
254	$\mathbb{M}_{2,-1}^{(a)}$	$-\frac{2}{5}$	0	0	0	0	0	$-\frac{8}{15}$	0	0	0
		0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{15}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{30}}{15}$	0	0	0	0	0
		$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{2}}{15}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2}{3}$	0	0	0
		0	0	$\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0
255	$\mathbb{M}_{2,-2}^{(a)}$	0	0	0	0	$\frac{4\sqrt{5}}{15}$	0	0	0	0	0
		$-\frac{4}{5}$	0	0	0	0	$\frac{4}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}}{15}$	0	0	0	0	0
		$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$-\frac{8\sqrt{2}}{15}$	0	0	0	0
		0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$-\frac{4\sqrt{3}}{15}$	0	0	0
256	$\mathbb{M}_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{15}$	0
		0	0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	$\frac{\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{15}$	0
		0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 6

No.	multipole	matrix									
257	$\mathbb{M}_{2,1}^{(1,-1;a)}$	0	0	$\frac{\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{30}$	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0
		0	$-\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{3\sqrt{2}}{10}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{6}$	0	0
		0	0	0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{\sqrt{3}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{5}$
258	$\mathbb{M}_{2,0}^{(1,-1;a)}$	0	$-\frac{\sqrt{3}}{15}$	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0
		0	0	$\frac{\sqrt{3}}{15}$	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0
		$\frac{\sqrt{6}}{15}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{15}$	0	0	0	0	$\frac{1}{5}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{1}{5}$	0	0
		0	0	0	$\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0
259	$\mathbb{M}_{2,-1}^{(1,-1;a)}$	$\frac{\sqrt{6}}{30}$	0	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0	0	0
		0	$-\frac{\sqrt{2}}{10}$	0	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0
		0	0	0	0	$-\frac{\sqrt{5}}{5}$	0	0	0	0	0
		$\frac{2\sqrt{3}}{15}$	0	0	0	0	0	$\frac{\sqrt{3}}{15}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}}{6}$	0	0
		0	0	$-\frac{2\sqrt{3}}{15}$	0	0	0	0	0	$\frac{3\sqrt{2}}{10}$	0
260	$\mathbb{M}_{2,-2}^{(1,-1;a)}$	0	0	0	0	$-\frac{2\sqrt{30}}{15}$	0	0	0	0	0
		$\frac{\sqrt{6}}{15}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{15}$	0	0	0	0	0
		$\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{4\sqrt{3}}{15}$	0	0	0	0
		0	$\frac{2\sqrt{3}}{15}$	0	0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0

*continued ...*

Table 6

No.	multipole	matrix									
261	$\mathbb{M}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
262	$\mathbb{M}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{5}}{14}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
263	$\mathbb{M}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{35}}{49}$	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{210}}{98}$	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{98}$
		0	0	0	0	0	0	0	0	0	0
264	$\mathbb{M}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{210}}{98}$	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{105}}{98}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{98}$

*continued ...*

Table 6

No.	multipole	matrix									
265	$\mathbb{M}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{7}}{49}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{42}}{49}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{49}$	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{49}$	0
266	$\mathbb{M}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{7}}{98}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{105}}{98}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{210}}{98}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{98}$	0	0
267	$\mathbb{M}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{210}}{98}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{35}}{49}$	0	0	0
268	$\mathbb{M}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{3}}{14}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0	0	0

*continued ...*



Table 6

No.	multipole	matrix									
269	$\mathbb{M}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	
270	$\mathbb{M}_{2,2}^{(1,0;a)}$	0	0	0	$-\frac{2\sqrt{6}}{45}$	0	0	0	0	$\frac{8\sqrt{6}}{135}$	0
		0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{30}}{135}$
		0	0	$\frac{8\sqrt{3}}{45}$	0	0	0	0	$\frac{2\sqrt{2}}{45}$	0	0
		0	0	0	$\frac{8\sqrt{3}}{45}$	0	0	0	0	$\frac{8\sqrt{3}}{135}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}}{135}$
		0	0	0	0	0	0	0	0	0	0
271	$\mathbb{M}_{2,1}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}}{15}$	0	0	0	0	$-\frac{16\sqrt{3}}{135}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{45}$	0	0	0	0	$-\frac{16\sqrt{6}}{135}$	0
		0	$-\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{\sqrt{2}}{15}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{27}$	0	0
		0	0	0	$\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{2\sqrt{3}}{135}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{45}$
272	$\mathbb{M}_{2,0}^{(1,0;a)}$	0	$-\frac{2\sqrt{3}}{45}$	0	0	0	0	$\frac{8\sqrt{2}}{45}$	0	0	0
		0	0	$\frac{2\sqrt{3}}{45}$	0	0	0	0	$\frac{8\sqrt{2}}{45}$	0	0
		$\frac{4\sqrt{6}}{45}$	0	0	0	0	0	$\frac{2\sqrt{6}}{45}$	0	0	0
		0	$-\frac{4\sqrt{6}}{45}$	0	0	0	0	$\frac{2}{45}$	0	0	0
		0	0	$-\frac{4\sqrt{6}}{45}$	0	0	0	0	$-\frac{2}{45}$	0	0
		0	0	0	$\frac{4\sqrt{6}}{45}$	0	0	0	0	$-\frac{2\sqrt{6}}{45}$	0

continued ...

Table 6

No.	multipole	matrix									
273	$\mathbb{M}_{2,-1}^{(1,0;a)}$	$\frac{\sqrt{6}}{45}$	0	0	0	0	$-\frac{16\sqrt{6}}{135}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{15}$	0	0	0	0	$-\frac{16\sqrt{3}}{135}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{45}$	0	0	0	0	0
		$\frac{8\sqrt{3}}{45}$	0	0	0	0	$\frac{2\sqrt{3}}{135}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}}{27}$	0	0	0
		0	0	$-\frac{8\sqrt{3}}{45}$	0	0	0	0	$\frac{\sqrt{2}}{15}$	0	0
274	$\mathbb{M}_{2,-2}^{(1,0;a)}$	0	0	0	0	$\frac{8\sqrt{30}}{135}$	0	0	0	0	0
		$\frac{2\sqrt{6}}{45}$	0	0	0	0	$\frac{8\sqrt{6}}{135}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}}{135}$	0	0	0	0	0
		$\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{8\sqrt{3}}{135}$	0	0	0	0
		0	$\frac{8\sqrt{3}}{45}$	0	0	0	0	$-\frac{2\sqrt{2}}{45}$	0	0	0
275	$\mathbb{M}_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0
276	$\mathbb{M}_{2,2}^{(1,1;a)}$	0	0	0	$\frac{4\sqrt{21}}{35}$	0	0	0	0	$-\frac{\sqrt{21}}{105}$	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{105}$	0
		0	0	$\frac{\sqrt{42}}{35}$	0	0	0	0	$-\frac{4\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{\sqrt{42}}{35}$	0	0	0	0	$-\frac{8\sqrt{42}}{735}$	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{735}$	0
		0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 6

No.	multipole	matrix									
277	$\mathbb{M}_{2,1}^{(1,1;a)}$	0	0	$-\frac{6\sqrt{7}}{35}$	0	0	0	$\frac{\sqrt{42}}{105}$	0	0	
		0	0	0	$\frac{2\sqrt{21}}{35}$	0	0	0	$\frac{2\sqrt{21}}{105}$	0	
		0	$-\frac{\sqrt{42}}{35}$	0	0	0	0	$\frac{6\sqrt{7}}{245}$	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{21}}{147}$	0	0	
		0	0	0	$\frac{\sqrt{42}}{35}$	0	0	0	$\frac{2\sqrt{42}}{735}$	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{245}$	
278	$\mathbb{M}_{2,0}^{(1,1;a)}$	0	$\frac{2\sqrt{42}}{35}$	0	0	0	0	$-\frac{\sqrt{7}}{35}$	0	0	0
		0	0	$-\frac{2\sqrt{42}}{35}$	0	0	0	0	$-\frac{\sqrt{7}}{35}$	0	0
		$\frac{\sqrt{21}}{35}$	0	0	0	0	$-\frac{4\sqrt{21}}{245}$	0	0	0	0
		0	$-\frac{\sqrt{21}}{35}$	0	0	0	0	$-\frac{2\sqrt{14}}{245}$	0	0	0
		0	0	$-\frac{\sqrt{21}}{35}$	0	0	0	0	$\frac{2\sqrt{14}}{245}$	0	0
		0	0	0	$\frac{\sqrt{21}}{35}$	0	0	0	0	$\frac{4\sqrt{21}}{245}$	0
279	$\mathbb{M}_{2,-1}^{(1,1;a)}$	$-\frac{2\sqrt{21}}{35}$	0	0	0	0	$\frac{2\sqrt{21}}{105}$	0	0	0	0
		0	$\frac{6\sqrt{7}}{35}$	0	0	0	0	$\frac{\sqrt{42}}{105}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{245}$	0	0	0	0	0
		$\frac{\sqrt{42}}{35}$	0	0	0	0	$-\frac{2\sqrt{42}}{735}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}}{147}$	0	0	0
		0	0	$-\frac{\sqrt{42}}{35}$	0	0	0	0	$-\frac{6\sqrt{7}}{245}$	0	0
280	$\mathbb{M}_{2,-2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{105}}{105}$	0	0	0	0	0
		$-\frac{4\sqrt{21}}{35}$	0	0	0	0	$-\frac{\sqrt{21}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{210}}{735}$	0	0	0	0	0
		$\frac{\sqrt{42}}{35}$	0	0	0	0	$\frac{8\sqrt{42}}{735}$	0	0	0	0
		0	$\frac{\sqrt{42}}{35}$	0	0	0	0	$\frac{4\sqrt{7}}{245}$	0	0	0

$$\begin{aligned}
\text{bra:} &= |\tfrac{1}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{1}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{3}{2}; p\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; p\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; p\rangle \\
\text{ket:} &= |\tfrac{5}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{7}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{7}{2}; f\rangle
\end{aligned}$$

Table 7: (p,f) block.

No.	multipole	matrix													
281	$\mathbb{Q}_{2,2}^{(a)}$	0	0	0	0	$\frac{1}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	0	$\frac{3}{35}$	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{35}}{35}$	0
282	$\mathbb{Q}_{2,1}^{(a)}$	0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2}{5}$	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{6}{35}$	0	0	0	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0
283	$\mathbb{Q}_{2,0}^{(a)}$	0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{6}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{9\sqrt{2}}{35}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{9\sqrt{2}}{35}$	0	0	0
		0	0	0	0	$\frac{6}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0

continued ...

Table 7

No.	multipole	matrix														
284	$\mathbb{Q}_{2,-1}^{(a)}$	0	$-\frac{2}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0
		0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
285	$\mathbb{Q}_{2,-2}^{(a)}$	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{35}}{35}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{3}{35}$	0	0	0	0	0
286	$\mathbb{Q}_{4,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{9}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{2\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{63}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{9}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
287	$\mathbb{Q}_{4,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{9}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{9}$		
		0	0	0	0	$-\frac{\sqrt{35}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{14}}{63}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 7

No.	multipole	matrix														
288	$\mathbb{Q}_{4,2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{9}$	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{9}$	0		
		0	0	0	$\frac{2\sqrt{5}}{21}$	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0		
		0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{11}{63}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{63}$	
289	$\mathbb{Q}_{4,1}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{9}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{9}$	0	0	
		0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{63}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{63}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{63}$	0	0	
		0	0	0	0	0	$\frac{1}{21}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0
290	$\mathbb{Q}_{4,0}^{(a)}$	0	0	0	0	0	0	0	0	0	$-\frac{2}{9}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2}{9}$	0	0	0	
		0	$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{63}$	0	0	0	0	
		0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{63}$	0	0	0	
		0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	
291	$\mathbb{Q}_{4,-1}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{9}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{9}$	0	0	0	0	
		$-\frac{1}{21}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{63}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{63}$	0	0	0	

continued ...

Table 7

No.	multipole	matrix													
292	$\mathbb{Q}_{4,-2}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{9}$	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{63}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{11}{63}$	0	0	0	0	0	0
		0	$\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0
293	$\mathbb{Q}_{4,-3}^{(a)}$	0	0	0	0	0	0	$\frac{1}{9}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{9}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{14}}{63}$	0	0	0	0	0	0
		0	$\frac{\sqrt{35}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0
294	$\mathbb{Q}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{2}}{9}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2}{9}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{63}$	0	0	0	0	0	0
295	$\mathbb{Q}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{14}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 7

No.	multipole	matrix														
296	$\mathbb{Q}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{3}{4}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{28}$		
		0	0	0	0	$-\frac{3\sqrt{5}}{28}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}}{14}$	0	0	
		0	0	0	0	0	$\frac{3\sqrt{3}}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
297	$\mathbb{Q}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{28}$	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}}{28}$	0		
		0	0	0	$\frac{3\sqrt{35}}{98}$	0	0	0	0	0	$\frac{9\sqrt{105}}{98}$	0	0	0		
		0	0	0	0	$-\frac{3\sqrt{210}}{196}$	0	0	0	0	0	$\frac{3\sqrt{21}}{98}$	0	0		
		0	0	0	0	0	$\frac{3\sqrt{42}}{196}$	0	0	0	0	0	$-\frac{33\sqrt{7}}{98}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$		
298	$\mathbb{Q}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{35}}{28}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}}{28}$	0	0		
		0	0	$-\frac{3\sqrt{70}}{196}$	0	0	0	0	0	$-\frac{3\sqrt{210}}{49}$	0	0	0	0		
		0	0	0	$\frac{3\sqrt{210}}{196}$	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0	0		
		0	0	0	0	$-\frac{3\sqrt{105}}{196}$	0	0	0	0	0	$\frac{6\sqrt{42}}{49}$	0	0		
		0	0	0	0	0	$\frac{3\sqrt{7}}{196}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}}{98}$	0	
299	$\mathbb{Q}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{14}$	0	0	0		
		0	$\frac{3\sqrt{7}}{98}$	0	0	0	0	0	0	$\frac{9\sqrt{70}}{98}$	0	0	0	0		
		0	0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	0	$-\frac{15\sqrt{14}}{98}$	0	0	0	0		
		0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	0	$-\frac{15\sqrt{14}}{98}$	0	0	0		
		0	0	0	0	$-\frac{3\sqrt{7}}{98}$	0	0	0	0	0	0	$\frac{9\sqrt{70}}{98}$	0	0	

continued ...



Table 7

No.	multipole	matrix													
300	$\mathbb{Q}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}}{28}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{35}}{28}$	0	0	0	0
		$-\frac{3\sqrt{7}}{196}$	0	0	0	0	0	0	0	$-\frac{9\sqrt{42}}{98}$	0	0	0	0	0
		0	$\frac{3\sqrt{105}}{196}$	0	0	0	0	0	0	$\frac{6\sqrt{42}}{49}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{210}}{196}$	0	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{70}}{196}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}}{49}$	0	0	0
301	$\mathbb{Q}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{28}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}}{28}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{42}}{196}$	0	0	0	0	0	0	$-\frac{33\sqrt{7}}{98}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{210}}{196}$	0	0	0	0	0	0	$\frac{3\sqrt{21}}{98}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{35}}{98}$	0	0	0	0	0	0	$\frac{9\sqrt{105}}{98}$	0	0	0	0
302	$\mathbb{Q}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{3\sqrt{7}}{28}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3}{4}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{3}}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}}{28}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}}{14}$	0	0	0	0	0
303	$\mathbb{Q}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix														
304	$\mathbb{Q}_{2,2}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{6}}{18}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{18}$	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{2}}{42}$	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0
		0	0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0	0	0	$\frac{\sqrt{30}}{42}$	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{42}$	0
305	$\mathbb{Q}_{2,1}^{(1,0;a)}$	0	0	0	$\frac{\sqrt{3}}{9}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}}{9}$	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{2}}{28}$	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0
		0	0	0	$-\frac{25\sqrt{6}}{252}$	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{3}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{5}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0
306	$\mathbb{Q}_{2,0}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}}{6}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}}{6}$	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{6}}{42}$	0	0	0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	0
		0	0	$\frac{5}{42}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0
		0	0	0	$-\frac{5}{42}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}}{42}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0
307	$\mathbb{Q}_{2,-1}^{(1,0;a)}$	0	$\frac{\sqrt{6}}{9}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}}{9}$	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{5}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{3}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	0
		0	0	$\frac{25\sqrt{6}}{252}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{2}}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0

continued ...

Table 7

No.	multipole	matrix															
308	$\mathbb{Q}_{2,-2}^{(1,0;a)}$	$-\frac{\sqrt{30}}{18}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{18}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{42}$	0	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{14}$	0	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{42}$	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{2}}{42}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0
309	$\mathbb{Q}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{27}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	$-\frac{\sqrt{70}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{945}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{135}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
310	$\mathbb{Q}_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}}{54}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{54}$			
		0	0	0	0	$\frac{5\sqrt{7}}{126}$	0	0	0	0	0	$\frac{\sqrt{70}}{315}$	0	0			
		0	0	0	0	0	$-\frac{\sqrt{105}}{126}$	0	0	0	0	0	$\frac{2\sqrt{70}}{945}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{135}$			
		0	0	0	0	0	0	0	0	0	0	0	0	0			
311	$\mathbb{Q}_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{54}$	0	0			
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{54}$	0			
		0	0	0	$-\frac{5}{63}$	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0	0			
		0	0	0	0	$\frac{5\sqrt{6}}{126}$	0	0	0	0	0	$-\frac{\sqrt{15}}{945}$	0	0			
		0	0	0	0	0	$-\frac{\sqrt{30}}{126}$	0	0	0	0	0	$\frac{11\sqrt{5}}{945}$	0			
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{945}$			

continued ...

Table 7

No.	multipole	matrix													
312	$\mathbb{Q}_{4,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{5}{54}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{54}$	0	0	
		0	0	$\frac{5\sqrt{2}}{126}$	0	0	0	0	0	$\frac{2\sqrt{6}}{189}$	0	0	0	0	
		0	0	0	$-\frac{5\sqrt{6}}{126}$	0	0	0	0	0	$-\frac{\sqrt{2}}{189}$	0	0	0	
		0	0	0	0	$\frac{5\sqrt{3}}{126}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{945}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{5}}{126}$	0	0	0	0	0	$\frac{\sqrt{30}}{315}$	0	
313	$\mathbb{Q}_{4,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{27}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{27}$	0	0	0	
		0	$-\frac{\sqrt{5}}{63}$	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0	0	0	0	
		0	0	$\frac{\sqrt{30}}{63}$	0	0	0	0	0	$\frac{\sqrt{10}}{189}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{30}}{63}$	0	0	0	0	0	$\frac{\sqrt{10}}{189}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{5}}{63}$	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0	
314	$\mathbb{Q}_{4,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{54}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{5}{54}$	0	0	0	
		$\frac{\sqrt{5}}{126}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{315}$	0	0	0	0	0	
		0	$-\frac{5\sqrt{3}}{126}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{945}$	0	0	0	0	
		0	0	$\frac{5\sqrt{6}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{189}$	0	0	0	
		0	0	0	$-\frac{5\sqrt{2}}{126}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{189}$	0	0	
315	$\mathbb{Q}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{54}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{54}$	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{105}}{945}$	0	0	0	0	0	0	
		$\frac{\sqrt{30}}{126}$	0	0	0	0	0	0	$\frac{11\sqrt{5}}{945}$	0	0	0	0	0	
		0	$-\frac{5\sqrt{6}}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{945}$	0	0	0	0	
		0	0	$\frac{5}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0	0	0	

continued ...

Table 7

No.	multipole	matrix														
316	$\mathbb{Q}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{54}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{54}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{10}}{135}$	0	0	0	0	0	0	0	0
		$\frac{\sqrt{105}}{126}$	0	0	0	0	0	0	$\frac{2\sqrt{70}}{945}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{7}}{126}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{315}$	0	0	0	0	0	0
317	$\mathbb{Q}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{10}}{27}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{5}}{135}$	0	0	0	0	0	0	0	0
		$\frac{\sqrt{70}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{945}$	0	0	0	0	0	0	0
318	$\mathbb{Q}_{2,2}^{(1,1;a)}$	0	0	0	0	$-\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{105}}{21}$	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{7}}{49}$	0	0	0	0	0	$\frac{\sqrt{21}}{98}$	0	0	0	0	0
		0	0	0	0	$-\frac{16\sqrt{42}}{147}$	0	0	0	0	0	$\frac{\sqrt{105}}{98}$	0	0	0	0
		0	0	0	0	0	$-\frac{8\sqrt{210}}{147}$	0	0	0	0	0	0	$\frac{3\sqrt{35}}{98}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{14}$	0
319	$\mathbb{Q}_{2,1}^{(1,1;a)}$	0	0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{12\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0	0	0	0	0	0
		0	0	0	$\frac{20\sqrt{21}}{147}$	0	0	0	0	0	$-\frac{3\sqrt{7}}{49}$	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{42}}{147}$	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0

continued ...

Table 7

No.	multipole	matrix														
320	$\mathbb{Q}_{2,0}^{(1,1;a)}$	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{8\sqrt{21}}{49}$	0	0	0	0	0	$\frac{\sqrt{210}}{98}$	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{14}}{49}$	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{14}}{49}$	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{98}$	0	0	0
321	$\mathbb{Q}_{2,-1}^{(1,1;a)}$	0	$\frac{4\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{42}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0	0	0
		0	0	$-\frac{20\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{49}$	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0	0	0	0
322	$\mathbb{Q}_{2,-2}^{(1,1;a)}$	$-\frac{2\sqrt{105}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{15}}{14}$	0	0	0	0	0	0	0	0
		$\frac{8\sqrt{210}}{147}$	0	0	0	0	0	0	$\frac{3\sqrt{35}}{98}$	0	0	0	0	0	0	0
		0	$\frac{16\sqrt{42}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{98}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{21}}{98}$	0	0	0	0	0
323	$\mathbb{G}_{3,3}^{(a)}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{3i}{28}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	0
		0	0	0	0	$\frac{3\sqrt{5}i}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{28}$	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{3}i}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{28}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix													
324	$\mathbb{G}_{3,2}^{(a)}$	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	
		0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0	0	$\frac{3\sqrt{6}i}{28}$	0	
		0	0	0	$-\frac{\sqrt{15}i}{14}$	0	0	0	0	0	$\frac{3\sqrt{5}i}{28}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{10}i}{28}$	0	0	0	0	0	$\frac{9i}{28}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{2}i}{28}$	0	0	0	0	0	$\frac{3\sqrt{3}i}{28}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	
325	$\mathbb{G}_{3,1}^{(a)}$	0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	$-\frac{3\sqrt{3}i}{28}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{2}i}{7}$	0	0	0	0	0	$-\frac{3\sqrt{5}i}{28}$	0	0	
		0	0	$\frac{3\sqrt{6}i}{28}$	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{2}i}{28}$	0	0	0	0	0	$-\frac{3\sqrt{6}i}{28}$	0	0	0	
		0	0	0	0	$-\frac{i}{4}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{15}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{10}i}{28}$	0
326	$\mathbb{G}_{3,0}^{(a)}$	0	0	$\frac{\sqrt{3}i}{7}$	0	0	0	0	0	$\frac{3i}{14}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0	$\frac{3i}{14}$	0	0	0	
		0	$-\frac{3i}{14}$	0	0	0	0	0	$\frac{3\sqrt{10}i}{28}$	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	$-\frac{3\sqrt{2}i}{28}$	0	0	0	
		0	0	0	0	$-\frac{3i}{14}$	0	0	0	0	0	$-\frac{3\sqrt{10}i}{28}$	0	0	
327	$\mathbb{G}_{3,-1}^{(a)}$	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{28}$	0	0	0	0	
		0	0	$\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{28}$	0	0	0	
		$\frac{\sqrt{15}i}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}i}{28}$	0	0	0	0	0	
		0	$-\frac{i}{4}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{2}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{6}i}{28}$	0	0	0	
		0	0	0	$\frac{3\sqrt{6}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	

continued ...

Table 7

No.	multipole	matrix													
328	$\mathbb{G}_{3,-2}^{(a)}$	$\frac{i}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{6}i}{28}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}i}{28}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{2}i}{28}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{28}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}i}{28}$	0	0	0	0	0	0	$-\frac{9i}{28}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{14}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{28}$	0	0	0	0
329	$\mathbb{G}_{3,-3}^{(a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	0	0	0	0	0	0	0
		$\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{3i}{28}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{3}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	0
330	$\mathbb{G}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{10}i}{42}$	0	0	0	0	0	$\frac{\sqrt{15}i}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}i}{21}$	
		0	0	0	0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{42}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
331	$\mathbb{G}_{3,2}^{(1,-1;a)}$	0	0	0	0	$-\frac{5\sqrt{3}i}{126}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{15}i}{126}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	
		0	0	0	$\frac{2i}{21}$	0	0	0	0	0	$\frac{5\sqrt{3}i}{42}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{6}i}{63}$	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{30}i}{63}$	0	0	0	0	0	$\frac{\sqrt{5}i}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{42}$	

continued ...



Table 7

No.	multipole	matrix													
332	$\mathbb{G}_{3,1}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{30}i}{126}$	0	0	0	0	0	$\frac{5\sqrt{3}i}{21}$	0	0	
		0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{30}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{14}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{i}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0
333	$\mathbb{G}_{3,0}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	
		0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0
334	$\mathbb{G}_{3,-1}^{(1,-1;a)}$	0	$\frac{\sqrt{30}i}{126}$	0	0	0	0	0	$\frac{5\sqrt{3}i}{21}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{15}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	0
		$-\frac{i}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	
		0	$\frac{\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{30}i}{315}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{14}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0
335	$\mathbb{G}_{3,-2}^{(1,-1;a)}$	$-\frac{\sqrt{15}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	0	0	0	0	
		0	$\frac{5\sqrt{3}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	
		0	0	0	0	0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0		
		$-\frac{\sqrt{30}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{14}$	0	0	0	0	0	
		0	$\frac{\sqrt{6}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{14}$	0	0	0	0	
		0	0	$\frac{2i}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}i}{42}$	0	0	0	0

continued ...

Table 7

No.	multipole	matrix														
336	$\mathbb{G}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{105}i}{21}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}i}{42}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{21}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}i}{42}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{5}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0
337	$\mathbb{G}_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{27}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
338	$\mathbb{G}_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{135}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{45}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
339	$\mathbb{G}_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{70}i}{135}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{135}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{135}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix															
340	$\mathbb{G}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{27}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{135}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{135}$	0
341	$\mathbb{G}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2i}{27}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{27}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{135}$	0	0	0
342	$\mathbb{G}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{27}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{27}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{27}$	0	0	0
343	$\mathbb{G}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{135}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{45}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{27}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{27}$	0	0	0	0

continued ...

Table 7

No.	multipole	matrix													
344	$\mathbb{G}_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{5}i}{135}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{105}i}{135}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}i}{45}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{27}$	0	0	0	0
345	$\mathbb{G}_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{135}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{70}i}{135}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{135}$	0	0	0	0	0
346	$\mathbb{G}_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{45}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{135}$	0	0	0	0	0	0
347	$\mathbb{G}_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{27}$	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix														
348	$\mathbb{G}_{3,3}^{(1,0;a)}$	0	0	0	0	0	$-\frac{2\sqrt{2}i}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{28}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{21}i}{28}$	
		0	0	0	0	$\frac{5\sqrt{15}i}{28}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	
		0	0	0	0	0	$\frac{25i}{28}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
349	$\mathbb{G}_{3,2}^{(1,0;a)}$	0	0	0	0	$\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{28}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$-\frac{15\sqrt{2}i}{28}$	0	
		0	0	0	$-\frac{5\sqrt{5}i}{14}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{14}$	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{30}i}{84}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{14}$	0	0	
		0	0	0	0	0	$\frac{25\sqrt{6}i}{84}$	0	0	0	0	0	0	$-\frac{3i}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{14}$	
350	$\mathbb{G}_{3,1}^{(1,0;a)}$	0	0	0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{15i}{28}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{15}i}{28}$	0	0	
		0	0	$\frac{15\sqrt{2}i}{28}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0	
		0	0	0	$-\frac{5\sqrt{6}i}{84}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{3}i}{12}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{5\sqrt{5}i}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{14}$	0	
351	$\mathbb{G}_{3,0}^{(1,0;a)}$	0	0	$\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}i}{14}$	0	0	0	0	
		0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}i}{14}$	0	0	0	
		0	$-\frac{5\sqrt{3}i}{14}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{14}$	0	0	0	0	0	
		0	0	$\frac{5\sqrt{2}i}{14}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{14}$	0	0	0	0	
		0	0	0	$\frac{5\sqrt{2}i}{14}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{3}i}{14}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0	

continued ...

Table 7

No.	multipole	matrix														
352	$\mathbb{G}_{3,-1}^{(1,0;a)}$	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{15}i}{28}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{15i}{28}$	0	0	0	0	0
		$\frac{5\sqrt{5}i}{28}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{3}i}{12}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{6}i}{84}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0
		0	0	0	$\frac{15\sqrt{2}i}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0
353	$\mathbb{G}_{3,-2}^{(1,0;a)}$	$\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$-\frac{15\sqrt{2}i}{28}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{28}$	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{14}$	0	0	0	0	0	0	0	0
		$\frac{25\sqrt{6}i}{84}$	0	0	0	0	0	0	$\frac{3i}{14}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{30}i}{84}$	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{14}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{5}i}{14}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0	0	0	0
354	$\mathbb{G}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{21}i}{28}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{2}i}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{28}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{14}$	0	0	0	0	0	0	0	0
		$\frac{25i}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{15}i}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0
355	$\mathbb{G}_{1,1}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{10}i}{20}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{30}i}{20}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{15}i}{10}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{i}{2}$	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix															
356	$\mathbb{G}_{1,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}i}{10}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{10}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{15}i}{10}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}i}{10}$	0	0	0	0	0	0	0	0	0	0	0
357	$\mathbb{G}_{1,-1}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{15}i}{10}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{30}i}{20}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{10}i}{20}$	0	0	0	0	0	0	0	0	0	0	0	0
358	$\mathbb{G}_{3,3}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{6}i}{63}$	0	0	0	0	0	0	$\frac{i}{126}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{126}$	0	0
		0	0	0	0	$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{189}$	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{3}i}{126}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{189}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{189}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
359	$\mathbb{G}_{3,2}^{(1,1;a)}$	0	0	0	0	$\frac{4\sqrt{5}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{126}$	0	0	0	0
		0	0	0	0	0	$-\frac{4i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{126}$	0	0	0
		0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{189}$	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{10}i}{126}$	0	0	0	0	0	0	$-\frac{i}{63}$	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{189}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{189}$	0	0

continued ...

Table 7

No.	multipole	matrix													
360	$\mathbb{G}_{3,1}^{(1,1;a)}$	0	0	0	$-\frac{8i}{63}$	0	0	0	0	0	$\frac{\sqrt{3}i}{126}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	$\frac{\sqrt{5}i}{126}$	0	0	
		0	0	$-\frac{\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{189}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{2}i}{126}$	0	0	0	0	0	$\frac{\sqrt{6}i}{189}$	0	0	0	
		0	0	0	0	$\frac{i}{18}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{15}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{189}$	0
361	$\mathbb{G}_{3,0}^{(1,1;a)}$	0	0	$\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	$-\frac{i}{63}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	$-\frac{i}{63}$	0	0	0	
		0	$\frac{i}{21}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{189}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}i}{63}$	0	0	0	0	0	$-\frac{\sqrt{2}i}{189}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{6}i}{63}$	0	0	0	0	0	$\frac{\sqrt{2}i}{189}$	0	0	0	
		0	0	0	0	$\frac{i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{189}$	0	0
362	$\mathbb{G}_{3,-1}^{(1,1;a)}$	0	$-\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{126}$	0	0	0	0	
		0	0	$\frac{8i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{126}$	0	0	0	0
		$-\frac{\sqrt{15}i}{126}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{189}$	0	0	0	0	0	
		0	$\frac{i}{18}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{126}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{189}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{189}$	0	0	0
363	$\mathbb{G}_{3,-2}^{(1,1;a)}$	$\frac{4i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{126}$	0	0	0	0	0	
		0	$-\frac{4\sqrt{5}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{126}$	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7}i}{189}$	0	0	0	0	0	0	
		$-\frac{5\sqrt{2}i}{126}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{189}$	0	0	0	0	0	
		0	$\frac{\sqrt{10}i}{126}$	0	0	0	0	0	0	$\frac{i}{63}$	0	0	0	0	0
		0	0	$\frac{\sqrt{15}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{189}$	0	0	0	0

continued ...



Table 7

No.	multipole	matrix													
364	$\mathbb{G}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{7}i}{126}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{6}i}{63}$	0	0	0	0	0	0	$\frac{i}{126}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{14}i}{189}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{3}i}{126}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{189}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{189}$	0	0	0	0	0
365	$\mathbb{T}_{2,2}^{(a)}$	0	0	0	0	$\frac{i}{6}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}i}{6}$	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	$\frac{i}{14}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{2}i}{21}$	0	0	0	0	0	$\frac{\sqrt{5}i}{14}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}i}{21}$	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}i}{14}$	0
366	$\mathbb{T}_{2,1}^{(a)}$	0	0	0	$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}i}{14}$	0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0	0
		0	0	0	$\frac{5i}{42}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{2}i}{42}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0
367	$\mathbb{T}_{2,0}^{(a)}$	0	0	$\frac{\sqrt{3}i}{6}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}i}{6}$	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{i}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{14}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{42}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{42}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0
		0	0	0	0	$\frac{i}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{14}$	0	0

continued ...

Table 7

No.	multipole	matrix														
368	$\mathbb{T}_{2,-1}^{(a)}$	0	$-\frac{i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0
		0	0	$-\frac{5i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{14}$	0	0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0
369	$\mathbb{T}_{2,-2}^{(a)}$	$\frac{\sqrt{5}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{35}i}{14}$	0	0	0	0	0	0	0	0
		$\frac{\sqrt{10}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{14}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{2}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{14}$	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{i}{14}$	0	0	0	0	0
370	$\mathbb{T}_{4,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{27}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{2\sqrt{14}i}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{189}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{27}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
371	$\mathbb{T}_{4,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{27}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{i}{27}$		
		0	0	0	0	$-\frac{\sqrt{35}i}{63}$	0	0	0	0	0	$\frac{\sqrt{14}i}{63}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{21}i}{63}$	0	0	0	0	0	$\frac{2\sqrt{14}i}{189}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 7

No.	multipole	matrix														
372	$\mathbb{T}_{4,2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{27}$	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{27}$	0		
		0	0	0	$\frac{2\sqrt{5}i}{63}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{63}$	0	0	0		
		0	0	0	0	$-\frac{\sqrt{30}i}{63}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{189}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{6}i}{63}$	0	0	0	0	0	0	$\frac{11i}{189}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{189}$	
373	$\mathbb{T}_{4,1}^{(a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{27}$	0	0	0		
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{27}$	0	0		
		0	0	$-\frac{\sqrt{10}i}{63}$	0	0	0	0	0	$\frac{2\sqrt{30}i}{189}$	0	0	0	0		
		0	0	0	$\frac{\sqrt{30}i}{63}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{189}$	0	0	0		
		0	0	0	0	$-\frac{\sqrt{15}i}{63}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{189}$	0	0	
		0	0	0	0	0	$\frac{i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{63}$	0	
374	$\mathbb{T}_{4,0}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{2i}{27}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$\frac{2i}{27}$	0	0	0		
		0	$\frac{2i}{63}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{63}$	0	0	0	0	0		
		0	0	$-\frac{2\sqrt{6}i}{63}$	0	0	0	0	0	$\frac{5\sqrt{2}i}{189}$	0	0	0	0		
		0	0	0	$\frac{2\sqrt{6}i}{63}$	0	0	0	0	0	$\frac{5\sqrt{2}i}{189}$	0	0	0		
		0	0	0	0	$-\frac{2i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{63}$	0	0	
375	$\mathbb{T}_{4,-1}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{27}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{27}$	0	0	0	0	
		$-\frac{i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{63}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{15}i}{63}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{189}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{30}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{189}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{10}i}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{189}$	0	0	0	

continued ...

Table 7

No.	multipole	matrix													
376	$\mathbb{T}_{4,-2}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{27}$	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{189}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}i}{63}$	0	0	0	0	0	0	$\frac{11i}{189}$	0	0	0	0	0	0
		0	$\frac{\sqrt{30}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{189}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}i}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{63}$	0	0	0	0
377	$\mathbb{T}_{4,-3}^{(a)}$	0	0	0	0	0	0	$\frac{i}{27}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{27}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{2}i}{27}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{21}i}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{189}$	0	0	0	0	0	0
		0	$\frac{\sqrt{35}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{14}i}{63}$	0	0	0	0	0
378	$\mathbb{T}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{2}i}{27}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2i}{27}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{14}i}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{189}$	0	0	0	0	0	0
379	$\mathbb{T}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{28}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{3\sqrt{2}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{14}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 7

No.	multipole	matrix																		
380	$\mathbb{T}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{3i}{8}$	0						
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{56}$						
		0	0	0	0	$-\frac{3\sqrt{5}i}{56}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{28}$	0	0					
		0	0	0	0	0	$\frac{3\sqrt{3}i}{56}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0					
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$						
		0	0	0	0	0	0	0	0	0	0	0	0	0	0					
381	$\mathbb{T}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{56}$	0	0						
		0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{14}i}{56}$	0						
		0	0	0	$\frac{3\sqrt{35}i}{196}$	0	0	0	0	0	$\frac{9\sqrt{105}i}{196}$	0	0	0						
		0	0	0	0	$-\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	$\frac{3\sqrt{21}i}{196}$	0	0	0					
		0	0	0	0	0	$\frac{3\sqrt{42}i}{392}$	0	0	0	0	0	$-\frac{33\sqrt{7}i}{196}$	0						
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{28}$						
382	$\mathbb{T}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{35}i}{56}$	0	0	0						
		0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{56}$	0	0	0					
		0	0	$-\frac{3\sqrt{70}i}{392}$	0	0	0	0	0	$-\frac{3\sqrt{210}i}{98}$	0	0	0	0	0					
		0	0	0	$\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	$\frac{3\sqrt{70}i}{196}$	0	0	0	0					
		0	0	0	0	$-\frac{3\sqrt{105}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{49}$	0	0	0				
		0	0	0	0	0	$\frac{3\sqrt{7}i}{392}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{196}$	0					
383	$\mathbb{T}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}i}{28}$	0	0	0	0						
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{28}$	0	0	0	0					
		0	$\frac{3\sqrt{7}i}{196}$	0	0	0	0	0	0	$\frac{9\sqrt{70}i}{196}$	0	0	0	0	0	0				
		0	0	$-\frac{3\sqrt{42}i}{196}$	0	0	0	0	0	0	$-\frac{15\sqrt{14}i}{196}$	0	0	0	0	0	0			
		0	0	0	$\frac{3\sqrt{42}i}{196}$	0	0	0	0	0	0	$-\frac{15\sqrt{14}i}{196}$	0	0	0	0	0	0		
		0	0	0	0	$-\frac{3\sqrt{7}i}{196}$	0	0	0	0	0	0	0	$\frac{9\sqrt{70}i}{196}$	0	0	0	0		

continued ...

Table 7

No.	multipole	matrix													
384	$\mathbb{T}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{56}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{35}i}{56}$	0	0	0	0
		$-\frac{3\sqrt{7}i}{392}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{196}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{105}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{49}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{70}i}{196}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{70}i}{392}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{98}$	0	0	0
385	$\mathbb{T}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}i}{56}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}i}{56}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{3}i}{28}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{42}i}{392}$	0	0	0	0	0	0	$-\frac{33\sqrt{7}i}{196}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{210}i}{392}$	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{196}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{35}i}{196}$	0	0	0	0	0	0	$\frac{9\sqrt{105}i}{196}$	0	0	0	0
386	$\mathbb{T}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{3\sqrt{7}i}{56}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3i}{8}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{3}i}{56}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}i}{56}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{28}$	0	0	0	0	0
387	$\mathbb{T}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}i}{28}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}i}{14}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}i}{28}$	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{14}$	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix													
388	$T_{2,2}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	$-\frac{3\sqrt{10}i}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	0
389	$T_{2,1}^{(1,0;a)}$	0	0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0
390	$T_{2,0}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0
		0	0	$-\frac{i}{7}$	0	0	0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{i}{7}$	0	0	0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0
391	$T_{2,-1}^{(1,0;a)}$	0	$-\frac{2\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{35}$	0	0	0

continued ...

Table 7

No.	multipole	matrix														
392	$\mathbb{T}_{2,-2}^{(1,0;a)}$	$\frac{\sqrt{30}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}i}{35}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{35}$	0	0	0	0	0
393	$\mathbb{T}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{9}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{\sqrt{70}i}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{315}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{45}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
394	$\mathbb{T}_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}i}{18}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{18}$		
		0	0	0	0	$-\frac{5\sqrt{7}i}{42}$	0	0	0	0	0	$-\frac{\sqrt{70}i}{105}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0	$-\frac{2\sqrt{70}i}{315}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{45}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
395	$\mathbb{T}_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{18}$	0	0		
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{18}$	0		
		0	0	0	$\frac{5i}{21}$	0	0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0		
		0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{\sqrt{15}i}{315}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	0	$-\frac{11\sqrt{5}i}{315}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}i}{315}$		

continued ...



Table 7

No.	multipole	matrix													
396	$\mathbb{T}_{4,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{5i}{18}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{18}$	0	0	
		0	0	$-\frac{5\sqrt{2}i}{42}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{63}$	0	0	0	0	
		0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{\sqrt{2}i}{63}$	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{315}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{105}$	
397	$\mathbb{T}_{4,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{9}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{9}$	0	0	0	
		0	$\frac{\sqrt{5}i}{21}$	0	0	0	0	0	$\frac{\sqrt{2}i}{21}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{63}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{63}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0	0	$\frac{\sqrt{2}i}{21}$	0	0	
398	$\mathbb{T}_{4,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{18}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{5i}{18}$	0	0	0	
		$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{105}$	0	0	0	0	0	
		0	$\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{315}$	0	0	0	0	
		0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{63}$	0	0	0	
		0	0	0	$\frac{5\sqrt{2}i}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{63}$	0	0	
399	$\mathbb{T}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{18}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{18}$	0	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{105}i}{315}$	0	0	0	0	0	0	0	
		$-\frac{\sqrt{30}i}{42}$	0	0	0	0	0	$-\frac{11\sqrt{5}i}{315}$	0	0	0	0	0	0	
		0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{315}$	0	0	0	0	
		0	0	$-\frac{5i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0

continued ...

Table 7

No.	multipole	matrix														
400	$T_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{18}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{35}i}{18}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{10}i}{45}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{105}i}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{315}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{7}i}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{105}$	0	0	0	0	0	0
401	$T_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{10}i}{9}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{5}i}{45}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{70}i}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{315}$	0	0	0	0	0	0	0
402	$T_{2,2}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{21}i}{21}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{105}i}{21}$	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{7}i}{49}$	0	0	0	0	0	$\frac{\sqrt{21}i}{196}$	0	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{42}i}{147}$	0	0	0	0	0	$\frac{\sqrt{105}i}{196}$	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{210}i}{147}$	0	0	0	0	0	0	$\frac{3\sqrt{35}i}{196}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{28}$	0
403	$T_{2,1}^{(1,1;a)}$	0	0	0	$\frac{\sqrt{42}i}{21}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{21}i}{21}$	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{6\sqrt{7}i}{49}$	0	0	0	0	0	$-\frac{\sqrt{21}i}{98}$	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{21}i}{147}$	0	0	0	0	0	$-\frac{3\sqrt{7}i}{98}$	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{42}i}{147}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{98}$	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{70}i}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{98}$	0	0

continued ...

Table 7

No.	multipole	matrix													
404	$T_{2,0}^{(1,1;a)}$	0	0	$-\frac{\sqrt{7}i}{7}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}i}{7}$	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{21}i}{49}$	0	0	0	0	0	$\frac{\sqrt{210}i}{196}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{14}i}{49}$	0	0	0	0	0	$\frac{3\sqrt{42}i}{196}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{14}i}{49}$	0	0	0	0	0	$\frac{3\sqrt{42}i}{196}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{21}i}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}i}{196}$	0	0
405	$T_{2,-1}^{(1,1;a)}$	0	$\frac{2\sqrt{21}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{42}i}{21}$	0	0	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{70}i}{49}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{98}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{42}i}{147}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{98}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{21}i}{147}$	0	0	0	0	0	$-\frac{3\sqrt{7}i}{98}$	0	0	0	0	0
		0	0	0	$-\frac{6\sqrt{7}i}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{98}$	0	0	0
406	$T_{2,-2}^{(1,1;a)}$	$-\frac{\sqrt{105}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{21}i}{21}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{15}i}{28}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{210}i}{147}$	0	0	0	0	0	0	$\frac{3\sqrt{35}i}{196}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{42}i}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}i}{196}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{7}i}{49}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{196}$	0	0	0	0
407	$M_{3,3}^{(a)}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	$-\frac{3}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$		
		0	0	0	0	$\frac{3\sqrt{5}}{14}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{14}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{3}}{14}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{14}$		
		0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 7

No.	multipole	matrix														
408	$M_{3,2}^{(a)}$	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0		
		0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	$\frac{3\sqrt{6}}{14}$	0		
		0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	$\frac{3\sqrt{5}}{14}$	0	0	0		
		0	0	0	0	$-\frac{\sqrt{10}}{14}$	0	0	0	0	0	$\frac{9}{14}$	0	0		
		0	0	0	0	0	$\frac{5\sqrt{2}}{14}$	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$		
409	$M_{3,1}^{(a)}$	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	$-\frac{3\sqrt{3}}{14}$	0	0	0		
		0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0		
		0	0	$\frac{3\sqrt{6}}{14}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0		
		0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	0	$-\frac{3\sqrt{6}}{14}$	0	0	0		
		0	0	0	0	$-\frac{1}{2}$	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{\sqrt{15}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{14}$	0	
410	$M_{3,0}^{(a)}$	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0		
		0	0	0	$-\frac{2\sqrt{3}}{7}$	0	0	0	0	0	$\frac{3}{7}$	0	0	0		
		0	$-\frac{3}{7}$	0	0	0	0	0	$\frac{3\sqrt{10}}{14}$	0	0	0	0	0		
		0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0		
		0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{14}$	0	0	0		
		0	0	0	0	$-\frac{3}{7}$	0	0	0	0	0	$-\frac{3\sqrt{10}}{14}$	0	0		
411	$M_{3,-1}^{(a)}$	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0	0	0	0	
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	
		$\frac{\sqrt{15}}{14}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{14}$	0	0	0	0	0	0	
		0	$-\frac{1}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{14}$	0	0	0	0	
		0	0	0	$\frac{3\sqrt{6}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	

continued ...

Table 7

No.	multipole	matrix													
412	$\mathbb{M}_{3,-2}^{(a)}$	$\frac{2}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{14}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{7}}{14}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{2}}{14}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{14}$	0	0	0	0	0	0	$-\frac{9}{14}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0	0	0
413	$\mathbb{M}_{3,-3}^{(a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{14}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{3}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{14}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0	0	0	0	0
414	$\mathbb{M}_{3,3}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{35}$	
		0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
415	$\mathbb{M}_{3,2}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	
		0	0	0	$\frac{4}{35}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{35}$	

continued ...

Table 7

No.	multipole	matrix													
416	$\mathbb{M}_{3,1}^{(1,-1;a)}$	0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	
		0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	
		0	0	0	$\frac{2\sqrt{30}}{525}$	0	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{2}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0
417	$\mathbb{M}_{3,0}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	
		0	$\frac{4\sqrt{15}}{175}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{10}}{175}$	0	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0
418	$\mathbb{M}_{3,-1}^{(1,-1;a)}$	0	$\frac{\sqrt{30}}{105}$	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0	0	
		$-\frac{2}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	
		0	$\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{2\sqrt{30}}{525}$	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0	0	0	
		0	0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	
419	$\mathbb{M}_{3,-2}^{(1,-1;a)}$	$-\frac{\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	
		0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{105}}{35}$	0	0	0	0	0	0	0	
		$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	
		0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0	0	
		0	0	$\frac{4}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0	

continued ...

Table 7

No.	multipole	matrix													
420	$\mathbb{M}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{35}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{35}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	0
421	$\mathbb{M}_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{9}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
422	$\mathbb{M}_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{45}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{15}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
423	$\mathbb{M}_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{70}}{45}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{45}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{45}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix															
424	$\mathbb{M}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{9}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{45}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{45}$	0
425	$\mathbb{M}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2}{9}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{9}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{45}$	0	0	0
426	$\mathbb{M}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{9}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{9}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{9}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{9}$	0	0	0	0
427	$\mathbb{M}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{45}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{15}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{9}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2}{9}$	0	0	0	0	0

continued ...



Table 7

No.	multipole	matrix														
428	$\mathbb{M}_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{5}}{45}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{105}}{45}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{15}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{9}$	0	0	0	0	0
429	$\mathbb{M}_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{10}}{45}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{70}}{45}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{45}$	0	0	0	0	0	0
430	$\mathbb{M}_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{5}}{15}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{45}$	0	0	0	0	0	0	0
431	$\mathbb{M}_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{9}$	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix														
432	$\mathbb{M}_{3,3}^{(1,0;a)}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}}{56}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{56}$	
		0	0	0	0	$-\frac{5\sqrt{15}}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{28}$	0	0	
		0	0	0	0	0	$-\frac{25}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{28}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
433	$\mathbb{M}_{3,2}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{56}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{15\sqrt{2}}{56}$	0	
		0	0	0	$\frac{5\sqrt{5}}{28}$	0	0	0	0	0	$\frac{\sqrt{15}}{28}$	0	0	0	0	
		0	0	0	0	$\frac{5\sqrt{30}}{168}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{28}$	0	0	
		0	0	0	0	0	$-\frac{25\sqrt{6}}{168}$	0	0	0	0	0	0	$\frac{3}{28}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{28}$	
434	$\mathbb{M}_{3,1}^{(1,0;a)}$	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{15}{56}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{56}$	0	0	
		0	0	$-\frac{15\sqrt{2}}{56}$	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	
		0	0	0	$\frac{5\sqrt{6}}{168}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{28}$	0	0	0	0	
		0	0	0	0	$\frac{5\sqrt{3}}{24}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{5\sqrt{5}}{56}$	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{28}$	0
435	$\mathbb{M}_{3,0}^{(1,0;a)}$	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{3}}{28}$	0	0	0	0	
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{3}}{28}$	0	0	0	
		0	$\frac{5\sqrt{3}}{28}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{28}$	0	0	0	0	0	
		0	0	$-\frac{5\sqrt{2}}{28}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{28}$	0	0	0	0	
		0	0	0	$-\frac{5\sqrt{2}}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{28}$	0	0	0	
		0	0	0	0	$\frac{5\sqrt{3}}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{28}$	0	0	

continued ...

Table 7

No.	multipole	matrix														
436	$\mathbb{M}_{3,-1}^{(1,0;a)}$	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{56}$	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{15}{56}$	0	0	0	0	0
		$-\frac{5\sqrt{5}}{56}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{28}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{3}}{24}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}}{168}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{28}$	0	0	0	0	0
		0	0	0	$-\frac{15\sqrt{2}}{56}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0
437	$\mathbb{M}_{3,-2}^{(1,0;a)}$	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{15\sqrt{2}}{56}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{56}$	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{28}$	0	0	0	0	0	0	0	0
		$-\frac{25\sqrt{6}}{168}$	0	0	0	0	0	0	$-\frac{3}{28}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{30}}{168}$	0	0	0	0	0	0	$-\frac{3\sqrt{3}}{28}$	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{5}}{28}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{28}$	0	0	0	0	0
438	$\mathbb{M}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{56}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{3}}{56}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}}{28}$	0	0	0	0	0	0	0	0
		$-\frac{25}{56}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{15}}{56}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{28}$	0	0	0	0	0	0
439	$\mathbb{M}_{1,1}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{10}}{50}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{30}}{50}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{3}{5}$	0	0	0	0	0	0	0	0	0

continued ...

Table 7

No.	multipole	matrix															
440	$\mathbb{M}_{1,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0
441	$\mathbb{M}_{1,-1}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{3}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{30}}{50}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{10}}{50}$	0	0	0	0	0	0	0	0	0	0	0	0
442	$\mathbb{M}_{3,3}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{1}{42}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{42}$		
		0	0	0	0	$-\frac{\sqrt{5}}{14}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{63}$	0	0		
		0	0	0	0	0	$-\frac{5\sqrt{3}}{42}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{63}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{63}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0	0		
443	$\mathbb{M}_{3,2}^{(1,1;a)}$	0	0	0	0	$\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0	0		
		0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0		
		0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{63}$	0	0	0		
		0	0	0	0	$\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0		
		0	0	0	0	0	$-\frac{5\sqrt{2}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{63}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{63}$		

continued ...

Table 7

No.	multipole	matrix													
444	$\mathbb{M}_{3,1}^{(1,1;a)}$	0	0	0	$-\frac{8}{21}$	0	0	0	0	0	$\frac{\sqrt{3}}{42}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0	0	0	0	$\frac{\sqrt{5}}{42}$	0	0	
		0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	$\frac{2\sqrt{2}}{63}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{2}}{42}$	0	0	0	0	0	$\frac{\sqrt{6}}{63}$	0	0	0	
		0	0	0	0	$\frac{1}{6}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{15}}{42}$	0	0	0	0	0	$-\frac{\sqrt{10}}{63}$	0	
445	$\mathbb{M}_{3,0}^{(1,1;a)}$	0	0	$\frac{4\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	
		0	$\frac{1}{7}$	0	0	0	0	0	$-\frac{\sqrt{10}}{63}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	$\frac{\sqrt{2}}{63}$	0	0	0	
		0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	$\frac{\sqrt{10}}{63}$	0	0	
446	$\mathbb{M}_{3,-1}^{(1,1;a)}$	0	$-\frac{4\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{42}$	0	0	0	0	
		0	0	$\frac{8}{21}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{42}$	0	0	0	
		$-\frac{\sqrt{15}}{42}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{63}$	0	0	0	0	0	
		0	$\frac{1}{6}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{2}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{63}$	0	0	0	
		0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{63}$	0	0	
447	$\mathbb{M}_{3,-2}^{(1,1;a)}$	$\frac{4}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0	0	0	0	0	
		0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	
		0	0	0	0	0	0	$-\frac{\sqrt{7}}{63}$	0	0	0	0	0		
		$-\frac{5\sqrt{2}}{42}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{63}$	0	0	0	0		
		0	$\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$\frac{1}{21}$	0	0	0		
		0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{63}$	0	0		

continued ...

Table 7

No.	multipole	matrix														
448	$\mathbb{M}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{42}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{1}{42}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{63}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{3}}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{63}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}}{14}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{63}$	0	0	0	0	0	0

$$\begin{aligned} \text{bra:} &= |\tfrac{3}{2}, \tfrac{3}{2}; d\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; d\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; d\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{5}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; d\rangle \\ \text{ket:} &= |\tfrac{3}{2}, \tfrac{3}{2}; d\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; d\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; d\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{5}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; d\rangle \end{aligned}$$

Table 8: (d,d) block.

No.	multipole	matrix														
449	$\mathbb{Q}_{0,0}^{(a)}$	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
450	$\mathbb{Q}_{2,2}^{(a)}$	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0
		0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0
		0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0
		0	0	0	$\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
451	$\mathbb{Q}_{2,1}^{(a)}$	0	$\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{3\sqrt{3}}{35}$	0	0	0
		0	0	0	0	0	0	0	$\frac{1}{7}$	0	0
		0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{\sqrt{2}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$
		$-\frac{\sqrt{30}}{35}$	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0
		0	$\frac{\sqrt{2}}{35}$	0	0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	0
		0	0	$\frac{1}{7}$	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix										
452	$\mathbb{Q}_{2,0}^{(a)}$	$-\frac{1}{5}$	0	0	0	0	$-\frac{6}{35}$	0	0	0	0	
		0	$\frac{1}{5}$	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	
		0	0	$\frac{1}{5}$	0	0	0	0	$\frac{\sqrt{6}}{35}$	0	0	
		0	0	0	$-\frac{1}{5}$	0	0	0	0	$\frac{6}{35}$	0	
		0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	
		$-\frac{6}{35}$	0	0	0	0	$\frac{2}{35}$	0	0	0	0	
		0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0	0	
		0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0	
		0	0	0	$\frac{6}{35}$	0	0	0	0	$\frac{2}{35}$	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2}{7}$	
453	$\mathbb{Q}_{2,-1}^{(a)}$	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	0	
		$-\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	
		0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	
		0	0	$\frac{\sqrt{2}}{5}$	0	0	0	0	$-\frac{3\sqrt{3}}{35}$	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	
		$-\frac{3\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	
		0	$-\frac{1}{7}$	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	
		0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	

continued ...



Table 8

No.	multipole	matrix									
454	$\mathbb{Q}_{2,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0
		$-\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0
		$-\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0
		0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0
		0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0
455	$\mathbb{Q}_{4,4}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{21}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{14}}{21}$	0	0	0	0	$\frac{\sqrt{14}}{21}$	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
456	$\mathbb{Q}_{4,3}^{(a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{21}$	0	
		0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0
		0	0	0	$-\frac{\sqrt{35}}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
457	$\mathbb{Q}_{4,2}^{(a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{21}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	$\frac{1}{7}$	0	0	0
		0	0	$\frac{\sqrt{30}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0
		0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
458	$\mathbb{Q}_{4,1}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{30}}{21}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{21}$
		$\frac{1}{21}$	0	0	0	0	$-\frac{2}{21}$	0	0	0	0
		0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0
		0	0	$\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2}{21}$
		0	0	0	0	0	0	0	0	0	0
459	$\mathbb{Q}_{4,0}^{(a)}$	0	0	0	0	0	$\frac{2}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{2}{21}$	0
		0	0	0	0	$\frac{1}{21}$	0	0	0	0	0
		$\frac{2}{21}$	0	0	0	0	$-\frac{1}{7}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	$\frac{2}{21}$	0	0	0
		0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	$\frac{2}{21}$	0	0
		0	0	0	$-\frac{2}{21}$	0	0	0	0	$-\frac{1}{7}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{21}$

continued ...

Table 8

No.	multipole	matrix									
460	$\mathbb{Q}_{4,-1}^{(a)}$	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2}{21}$	0	0	0	0	0
		$\frac{\sqrt{10}}{21}$	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0
		0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0
		0	0	0	$-\frac{1}{21}$	0	0	0	0	$-\frac{2}{21}$	0
461	$\mathbb{Q}_{4,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{1}{7}$	0	0	0	0	0
		$\frac{2\sqrt{5}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0
		0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0
		0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	$\frac{1}{7}$	0	0

continued ...

Table 8

No.	multipole	matrix									
462	$\mathbb{Q}_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{21}}{21}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{35}}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0
		$\frac{\sqrt{35}}{21}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{21}}{21}$	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0
463	$\mathbb{Q}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{14}}{21}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0
		$\frac{2\sqrt{14}}{21}$	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
464	$\mathbb{Q}_{2,2}^{(1,-1;a)}$	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{3\sqrt{2}}{5}$	0	0
		0	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{3}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{5}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}}{5}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0
		0	0	$\frac{4\sqrt{3}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{3\sqrt{2}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{5}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
465	$\mathbb{Q}_{2,1}^{(1,-1;a)}$	0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{9\sqrt{2}}{10}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}}{2}$	0	0
		0	0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{\sqrt{3}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{5}$
		$-\frac{3\sqrt{5}}{5}$	0	0	0	0	$-\frac{4\sqrt{5}}{5}$	0	0	0	0
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{2}$	0	0	0	0	0	0	0
		0	0	0	$\frac{9\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{2}}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{5}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
466	$\mathbb{Q}_{2,0}^{(1,-1;a)}$	$-\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{3\sqrt{6}}{5}$	0	0	0	0
		0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{3}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{3}{5}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{3\sqrt{6}}{5}$	0
		0	0	0	0	$\frac{2\sqrt{6}}{3}$	0	0	0	0	0
		$-\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0	0	0	0
		0	$-\frac{3}{5}$	0	0	0	0	$-\frac{8\sqrt{6}}{15}$	0	0	0
		0	0	$\frac{3}{5}$	0	0	0	0	$-\frac{8\sqrt{6}}{15}$	0	0
		0	0	0	$\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{15}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{3}$
467	$\mathbb{Q}_{2,-1}^{(1,-1;a)}$	0	0	0	0	$\frac{3\sqrt{5}}{5}$	0	0	0	0	0
		$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{6}}{2}$	0	0	0
		0	0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{9\sqrt{2}}{10}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}}{5}$	0	0	0	0	0
		$-\frac{9\sqrt{2}}{10}$	0	0	0	0	$\frac{4\sqrt{2}}{5}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{2}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	$-\frac{4\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{3\sqrt{5}}{5}$	0	0	0	0	$-\frac{4\sqrt{5}}{5}$	0

continued ...

Table 8

No.	multipole	matrix									
468	$\mathbb{Q}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}}{5}$	0	0	0	0	0
		$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{4\sqrt{3}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{3\sqrt{2}}{5}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{3\sqrt{2}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0	0	0
		0	$-\frac{4\sqrt{3}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{15}}{5}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0
469	$\mathbb{Q}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0
		0	0	0	0	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	

continued ...



Table 8

No.	multipole	matrix									
470	$\mathbb{Q}_{4,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{14}$	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{14}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	$\frac{3\sqrt{3}}{14}$	0	0	0	0	$\frac{6\sqrt{2}}{7}$	0	0
		0	0	0	$-\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
471	$\mathbb{Q}_{4,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{3\sqrt{35}}{49}$	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{210}}{98}$	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	
		0	0	0	0	0	0	0	0	0	
		0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0
		0	0	$\frac{3\sqrt{210}}{98}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0
		0	0	0	$-\frac{3\sqrt{35}}{49}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0
		0	0	0	0	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix									
472	$\mathbb{Q}_{4,1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{98}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{210}}{98}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{3\sqrt{105}}{98}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{7}}{98}$
		$\frac{3\sqrt{7}}{98}$	0	0	0	0	$\frac{12\sqrt{7}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{105}}{98}$	0	0	0	0	$-\frac{6\sqrt{70}}{49}$	0	0	0
		0	0	$\frac{3\sqrt{210}}{98}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{70}}{98}$	0	0	0	0	$\frac{6\sqrt{70}}{49}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{12\sqrt{7}}{49}$
		0	0	0	0	0	0	0	0	0	0
473	$\mathbb{Q}_{4,0}^{(1,-1;a)}$	0	0	0	0	0	$\frac{3\sqrt{7}}{49}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{42}}{49}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{42}}{49}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{3\sqrt{7}}{49}$	0
		0	0	0	0	$-\frac{6\sqrt{7}}{49}$	0	0	0	0	0
		$\frac{3\sqrt{7}}{49}$	0	0	0	0	$\frac{18\sqrt{7}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{42}}{49}$	0	0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0	0
		0	0	$\frac{3\sqrt{42}}{49}$	0	0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0
		0	0	0	$-\frac{3\sqrt{7}}{49}$	0	0	0	0	$\frac{18\sqrt{7}}{49}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{7}}{49}$

continued ...

Table 8

No.	multipole	matrix									
474	$\mathbb{Q}_{4,-1}^{(1,-1;a)}$	0	0	0	0	$-\frac{3\sqrt{7}}{98}$	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{105}}{98}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{210}}{98}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{70}}{98}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{12\sqrt{7}}{49}$	0	0	0	0	0
		$\frac{3\sqrt{70}}{98}$	0	0	0	0	$\frac{6\sqrt{70}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{210}}{98}$	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{105}}{98}$	0	0	0	0	$-\frac{6\sqrt{70}}{49}$	0	0
		0	0	0	$-\frac{3\sqrt{7}}{98}$	0	0	0	0	$\frac{12\sqrt{7}}{49}$	0
475	$\mathbb{Q}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{210}}{98}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{35}}{49}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0	0
		$\frac{3\sqrt{35}}{49}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0	0	0
		0	$-\frac{3\sqrt{210}}{98}$	0	0	0	0	$\frac{6\sqrt{35}}{49}$	0	0	0
		0	0	$\frac{3\sqrt{42}}{98}$	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0

continued ...

Table 8

No.	multipole	matrix									
476	$\mathbb{Q}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{5}}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0
		$\frac{3\sqrt{5}}{14}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{3}}{14}$	0	0	0	0	$\frac{6\sqrt{2}}{7}$	0	0	0
477	$\mathbb{Q}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0
		$\frac{3\sqrt{2}}{7}$	0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
478	$\mathbb{Q}_{0,0}^{(1,1;a)}$	$-\sqrt{3}$	0	0	0	0	0	0	0	0	0
		0	$-\sqrt{3}$	0	0	0	0	0	0	0	0
		0	0	$-\sqrt{3}$	0	0	0	0	0	0	0
		0	0	0	$-\sqrt{3}$	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	0	0
		0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{3}$
479	$\mathbb{Q}_{2,2}^{(1,1;a)}$	0	0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{24\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{16\sqrt{42}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{210}}{245}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{210}}{245}$	0	0	0	0	$-\frac{9\sqrt{35}}{245}$	0	0	0
		0	0	$\frac{16\sqrt{42}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{24\sqrt{7}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{9\sqrt{35}}{245}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
480	$\mathbb{Q}_{2,1}^{(1,1;a)}$	0	$-\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{36\sqrt{7}}{245}$	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{21}}{49}$	0	0
		0	0	0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{4\sqrt{42}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{12\sqrt{70}}{245}$
		$-\frac{12\sqrt{70}}{245}$	0	0	0	0	$\frac{9\sqrt{70}}{245}$	0	0	0	0
		0	$\frac{4\sqrt{42}}{245}$	0	0	0	0	$\frac{18\sqrt{7}}{245}$	0	0	0
		0	0	$\frac{4\sqrt{21}}{49}$	0	0	0	0	0	0	0
		0	0	0	$\frac{36\sqrt{7}}{245}$	0	0	0	0	$-\frac{18\sqrt{7}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{9\sqrt{70}}{245}$
		0	0	0	0	0	0	0	0	0	0
481	$\mathbb{Q}_{2,0}^{(1,1;a)}$	$\frac{6\sqrt{21}}{35}$	0	0	0	0	$-\frac{24\sqrt{21}}{245}$	0	0	0	0
		0	$-\frac{6\sqrt{21}}{35}$	0	0	0	0	$-\frac{12\sqrt{14}}{245}$	0	0	0
		0	0	$-\frac{6\sqrt{21}}{35}$	0	0	0	0	$\frac{12\sqrt{14}}{245}$	0	0
		0	0	0	$\frac{6\sqrt{21}}{35}$	0	0	0	0	$\frac{24\sqrt{21}}{245}$	0
		0	0	0	0	$-\frac{3\sqrt{21}}{49}$	0	0	0	0	0
		$-\frac{24\sqrt{21}}{245}$	0	0	0	0	$\frac{3\sqrt{21}}{245}$	0	0	0	0
		0	$-\frac{12\sqrt{14}}{245}$	0	0	0	0	$\frac{12\sqrt{21}}{245}$	0	0	0
		0	0	$\frac{12\sqrt{14}}{245}$	0	0	0	0	$\frac{12\sqrt{21}}{245}$	0	0
		0	0	0	$\frac{24\sqrt{21}}{245}$	0	0	0	0	$\frac{3\sqrt{21}}{245}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}}{49}$

continued ...

Table 8

No.	multipole	matrix									
482	$\mathbb{Q}_{2,-1}^{(1,1;a)}$	0	0	0	0	$\frac{12\sqrt{70}}{245}$	0	0	0	0	0
		$\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{4\sqrt{42}}{245}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{21}}{49}$	0	0	0
		0	0	$-\frac{6\sqrt{42}}{35}$	0	0	0	0	$-\frac{36\sqrt{7}}{245}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{9\sqrt{70}}{245}$	0	0	0	0	0
		$-\frac{36\sqrt{7}}{245}$	0	0	0	0	$-\frac{18\sqrt{7}}{245}$	0	0	0	0
		0	$-\frac{4\sqrt{21}}{49}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{42}}{245}$	0	0	0	0	$\frac{18\sqrt{7}}{245}$	0	0
		0	0	0	$\frac{12\sqrt{70}}{245}$	0	0	0	0	$\frac{9\sqrt{70}}{245}$	0
483	$\mathbb{Q}_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{8\sqrt{210}}{245}$	0	0	0	0	0
		$\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{16\sqrt{42}}{245}$	0	0	0	0
		0	$\frac{6\sqrt{42}}{35}$	0	0	0	0	$\frac{24\sqrt{7}}{245}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{9\sqrt{35}}{245}$	0	0	0	0	0
		$-\frac{24\sqrt{7}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0	0	0	0
		0	$-\frac{16\sqrt{42}}{245}$	0	0	0	0	$-\frac{27\sqrt{7}}{245}$	0	0	0
		0	0	$-\frac{8\sqrt{210}}{245}$	0	0	0	0	$-\frac{9\sqrt{35}}{245}$	0	0

continued ...

Table 8

No.	multipole	matrix									
484	$\mathbb{G}_{1,1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0
		0	0	0	0	0	0	0	0	$\sqrt{3}i$	0
		0	0	0	0	0	0	0	0	0	$\sqrt{5}i$
		$\sqrt{5}i$	0	0	0	0	0	0	0	0	0
		0	$\sqrt{3}i$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
485	$\mathbb{G}_{1,0}^{(1,0;a)}$	0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0
		0	0	0	0	0	0	$-\sqrt{3}i$	0	0	0
		0	0	0	0	0	0	0	$-\sqrt{3}i$	0	0
		0	0	0	0	0	0	0	0	$-\sqrt{2}i$	0
		0	0	0	0	0	0	0	0	0	0
		$\sqrt{2}i$	0	0	0	0	0	0	0	0	0
		0	$\sqrt{3}i$	0	0	0	0	0	0	0	0
		0	0	$\sqrt{3}i$	0	0	0	0	0	0	0
		0	0	0	$\sqrt{2}i$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...



Table 8

No.	multipole	matrix									
486	$\mathbb{G}_{1,-1}^{(1,0;a)}$	0	0	0	0	$\sqrt{5}i$	0	0	0	0	0
		0	0	0	0	0	$\sqrt{3}i$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0
		0	0	$\sqrt{3}i$	0	0	0	0	0	0	0
		0	0	0	$\sqrt{5}i$	0	0	0	0	0	0
487	$\mathbb{G}_{3,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{14}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{15i}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{15i}{14}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{15}i}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
488	$\mathbb{G}_{3,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{3\sqrt{5}i}{7}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{6}i}{14}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{30}i}{14}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{5}i}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
489	$\mathbb{G}_{3,1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{14}$	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{2}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{5}i}{14}$
		$-\frac{3\sqrt{5}i}{14}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3}i}{2}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{9\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
490	$\mathbb{G}_{3,0}^{(1,0;a)}$	0	0	0	0	0	$\frac{3\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{7}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{7}$	0	0
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{7}$	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{3}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{3}i}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
491	$\mathbb{G}_{3,-1}^{(1,0;a)}$	0	0	0	0	$-\frac{3\sqrt{5}i}{14}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{3}i}{2}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{9\sqrt{2}i}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{9\sqrt{2}i}{14}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}i}{2}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{5}i}{14}$	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
492	$\mathbb{G}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}i}{14}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{5}i}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{5}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{14}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{14}$	0	0	0	0	0	0	0
493	$\mathbb{G}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{15i}{14}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{15}i}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{15}i}{14}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{15i}{14}$	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
494	$\mathbb{T}_{2,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{7}$	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
495	$\mathbb{T}_{2,1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{21}$	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$
		$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
496	$\mathbb{T}_{2,0}^{(1,0;a)}$	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0
		0	0	0	0	0	0	$\frac{i}{7}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{i}{7}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{i}{7}$	0	0	0	0	0	0	0	0
		0	0	$\frac{i}{7}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
497	$\mathbb{T}_{2,-1}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0
		0	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
498	$\mathbb{T}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}i}{21}$	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}i}{21}$	0	0	0	0	0	0	0
499	$\mathbb{T}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{21}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}i}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
500	$\mathbb{T}_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{5\sqrt{7}i}{42}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{42}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{5\sqrt{7}i}{42}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
501	$\mathbb{T}_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{5i}{21}$	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{42}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{5i}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 8

No.	multipole	matrix									
502	$\mathbb{T}_{4,1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{42}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{42}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{42}$
		$\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{5\sqrt{2}i}{42}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
503	$\mathbb{T}_{4,0}^{(1,0;a)}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{21}$	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{5}i}{21}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5}i}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
504	$\mathbb{T}_{4,-1}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{3}i}{42}$	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{6}i}{42}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{2}i}{42}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{2}i}{42}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{3}i}{42}$	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5}i}{42}$	0	0	0	0	0	0
505	$\mathbb{T}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0
		0	0	0	0	0	0	$\frac{5i}{21}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{5i}{21}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{6}i}{42}$	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{30}i}{42}$	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
506	$\mathbb{T}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{105}i}{42}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{7}i}{42}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{7}i}{42}$	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{105}i}{42}$	0	0	0	0	0	0	0	0
507	$\mathbb{T}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{70}i}{21}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{70}i}{21}$	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
508	$\mathbb{M}_{1,1}^{(a)}$	0	$-\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{1}{5}$	0	0	0
		0	0	$-\frac{6\sqrt{2}}{5}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0
		0	0	0	$-\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{5}$
		$\frac{\sqrt{10}}{5}$	0	0	0	0	$-\frac{2\sqrt{10}}{5}$	0	0	0	0
		0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{8}{5}$	0	0	0
		0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	$-\frac{6\sqrt{2}}{5}$	0	0
		0	0	0	$\frac{1}{5}$	0	0	0	0	$-\frac{8}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{5}$
		0	0	0	0	0	0	0	0	0	0
509	$\mathbb{M}_{1,0}^{(a)}$	$\frac{9}{5}$	0	0	0	0	$\frac{2}{5}$	0	0	0	0
		0	$\frac{3}{5}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0
		0	0	$-\frac{3}{5}$	0	0	0	0	$\frac{\sqrt{6}}{5}$	0	0
		0	0	0	$-\frac{9}{5}$	0	0	0	0	$\frac{2}{5}$	0
		0	0	0	0	2	0	0	0	0	0
		$\frac{2}{5}$	0	0	0	0	$\frac{6}{5}$	0	0	0	0
		0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$-\frac{2}{5}$	0	0
		0	0	0	$\frac{2}{5}$	0	0	0	0	$-\frac{6}{5}$	0
		0	0	0	0	0	0	0	0	0	-2

continued ...

Table 8

No.	multipole	matrix									
510	$M_{1,-1}^{(a)}$	0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0
		$\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0
		0	$\frac{6\sqrt{2}}{5}$	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0
		0	0	$\frac{3\sqrt{6}}{5}$	0	0	0	0	$-\frac{1}{5}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0	0	0
		$\frac{1}{5}$	0	0	0	0	$\frac{8}{5}$	0	0	0	0
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	$\frac{6\sqrt{2}}{5}$	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{8}{5}$	0	0
		0	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0
511	$M_{3,3}^{(a)}$	0	0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	$\frac{9\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0
		0	0	0	$-\frac{9\sqrt{5}}{35}$	0	0	0	0	$\frac{12\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 8

No.	multipole	matrix									
512	$\mathbb{M}_{3,2}^{(a)}$	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	
		0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	$\frac{3\sqrt{2}}{7}$	0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	
		0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	
		0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	$\frac{3\sqrt{15}}{35}$	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	
		0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	
513	$\mathbb{M}_{3,1}^{(a)}$	0	$\frac{12}{35}$	0	0	0	$\frac{9\sqrt{6}}{35}$	0	0	0	
		0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	
		0	0	0	$\frac{12}{35}$	0	0	0	$-\frac{3}{5}$	0	
		0	0	0	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	
		$-\frac{3\sqrt{15}}{35}$	0	0	0	0	$\frac{6\sqrt{15}}{35}$	0	0	0	
		0	$\frac{3}{5}$	0	0	0	$-\frac{3\sqrt{6}}{35}$	0	0	0	
		0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	
		0	0	0	$-\frac{9\sqrt{6}}{35}$	0	0	0	$-\frac{3\sqrt{6}}{35}$	0	
		0	0	0	0	0	0	0	0	$\frac{6\sqrt{15}}{35}$	
		0	0	0	0	0	0	0	0	0	

continued ...

Table 8

No.	multipole	matrix										
514	$\mathbb{M}_{3,0}^{(a)}$	$-\frac{6}{35}$	0	0	0	0	$-\frac{18}{35}$	0	0	0	0	
		0	$\frac{18}{35}$	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	0	0	
		0	0	$-\frac{18}{35}$	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	0	
		0	0	0	$\frac{6}{35}$	0	0	0	0	$-\frac{18}{35}$	0	
		0	0	0	0	$-\frac{3}{7}$	0	0	0	0	0	
		$-\frac{18}{35}$	0	0	0	0	$\frac{3}{5}$	0	0	0	0	
		0	$\frac{6\sqrt{6}}{35}$	0	0	0	0	$\frac{12}{35}$	0	0	0	
		0	0	$\frac{6\sqrt{6}}{35}$	0	0	0	0	$-\frac{12}{35}$	0	0	
		0	0	0	$-\frac{18}{35}$	0	0	0	0	$-\frac{3}{5}$	0	
		0	0	0	0	0	0	0	0	0	$\frac{3}{7}$	
515	$\mathbb{M}_{3,-1}^{(a)}$	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0	0	0	
		$-\frac{12}{35}$	0	0	0	0	$-\frac{3}{5}$	0	0	0	0	
		0	$\frac{12\sqrt{3}}{35}$	0	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	
		0	0	$-\frac{12}{35}$	0	0	0	0	$\frac{9\sqrt{6}}{35}$	0	0	
		0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	0	0	
		$-\frac{9\sqrt{6}}{35}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	
		0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	$\frac{12\sqrt{3}}{35}$	0	0	0	
		0	0	$\frac{3}{5}$	0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	
		0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	

continued ...

Table 8

No.	multipole	matrix									
516	$\mathbb{M}_{3,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		$-\frac{6\sqrt{10}}{35}$	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0
		0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0
		$-\frac{6\sqrt{15}}{35}$	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0	0	0
		0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0
		0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0
517	$\mathbb{M}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	0
		$-\frac{12\sqrt{5}}{35}$	0	0	0	0	$\frac{9\sqrt{5}}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		$-\frac{9\sqrt{5}}{35}$	0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0
		0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0

continued ...



Table 8

No.	multipole	matrix									
518	$\mathbb{M}_{1,1}^{(1,-1;a)}$	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2}{5}$	0	0	0
		0	0	$\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0
		0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2\sqrt{6}}{5}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{5}$
		$-\frac{2\sqrt{10}}{5}$	0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$-\frac{4}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$-\frac{3\sqrt{2}}{5}$	0	0
		0	0	0	$-\frac{2}{5}$	0	0	0	0	$-\frac{4}{5}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{5}$
		0	0	0	0	0	0	0	0	0	0
519	$\mathbb{M}_{1,0}^{(1,-1;a)}$	$-\frac{3}{5}$	0	0	0	0	$-\frac{4}{5}$	0	0	0	0
		0	$-\frac{1}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{5}$	0	0	0
		0	0	$\frac{1}{5}$	0	0	0	0	$-\frac{2\sqrt{6}}{5}$	0	0
		0	0	0	$\frac{3}{5}$	0	0	0	0	$-\frac{4}{5}$	0
		0	0	0	0	1	0	0	0	0	0
		$-\frac{4}{5}$	0	0	0	0	$\frac{3}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$\frac{1}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$-\frac{1}{5}$	0	0
		0	0	0	$-\frac{4}{5}$	0	0	0	0	$-\frac{3}{5}$	0
		0	0	0	0	0	0	0	0	0	-1

continued ...

Table 8

No.	multipole	matrix									
520	$\mathbb{M}_{1,-1}^{(1,-1;a)}$	0	0	0	0	$\frac{2\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2\sqrt{6}}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	$\frac{2}{5}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{5}$	0	0	0	0	0
		$-\frac{2}{5}$	0	0	0	0	$\frac{4}{5}$	0	0	0	0
		0	$-\frac{2\sqrt{3}}{5}$	0	0	0	0	$\frac{3\sqrt{2}}{5}$	0	0	0
		0	0	$-\frac{2\sqrt{6}}{5}$	0	0	0	0	$\frac{4}{5}$	0	0
		0	0	0	$-\frac{2\sqrt{10}}{5}$	0	0	0	0	$\frac{\sqrt{10}}{5}$	0
521	$\mathbb{M}_{3,3}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0
		0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	$\frac{8\sqrt{3}}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
522	$\mathbb{M}_{3,2}^{(1,-1;a)}$	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0
		0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{4\sqrt{6}}{105}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0
		0	0	$\frac{4\sqrt{6}}{105}$	0	0	0	0	$-\frac{6}{35}$	0	0
		0	0	0	$\frac{8}{35}$	0	0	0	0	$\frac{6}{35}$	0
		0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
523	$\mathbb{M}_{3,1}^{(1,-1;a)}$	0	$-\frac{2\sqrt{15}}{175}$	0	0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0	0
		0	0	$\frac{6\sqrt{5}}{175}$	0	0	0	0	$\frac{4\sqrt{30}}{525}$	0	0
		0	0	0	$-\frac{2\sqrt{15}}{175}$	0	0	0	0	$\frac{4\sqrt{15}}{75}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4}{35}$
		$\frac{4}{35}$	0	0	0	0	$\frac{12}{35}$	0	0	0	0
		0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0
		0	0	$-\frac{4\sqrt{30}}{525}$	0	0	0	0	$-\frac{24\sqrt{5}}{175}$	0	0
		0	0	0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	$-\frac{6\sqrt{10}}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{12}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
524	$\mathbb{M}_{3,0}^{(1,-1;a)}$	$\frac{\sqrt{15}}{175}$	0	0	0	0	$\frac{8\sqrt{15}}{175}$	0	0	0	0
		0	$-\frac{3\sqrt{15}}{175}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0	0
		0	0	$\frac{3\sqrt{15}}{175}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0
		0	0	0	$-\frac{\sqrt{15}}{175}$	0	0	0	0	$\frac{8\sqrt{15}}{175}$	0
		0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0
		$\frac{8\sqrt{15}}{175}$	0	0	0	0	$\frac{2\sqrt{15}}{25}$	0	0	0	0
		0	$-\frac{8\sqrt{10}}{175}$	0	0	0	0	$\frac{8\sqrt{15}}{175}$	0	0	0
		0	0	$-\frac{8\sqrt{10}}{175}$	0	0	0	0	$-\frac{8\sqrt{15}}{175}$	0	0
		0	0	0	$\frac{8\sqrt{15}}{175}$	0	0	0	0	$-\frac{2\sqrt{15}}{25}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$
525	$\mathbb{M}_{3,-1}^{(1,-1;a)}$	0	0	0	0	$-\frac{4}{35}$	0	0	0	0	0
		$\frac{2\sqrt{15}}{175}$	0	0	0	0	$\frac{4\sqrt{15}}{75}$	0	0	0	0
		0	$-\frac{6\sqrt{5}}{175}$	0	0	0	0	$\frac{4\sqrt{30}}{525}$	0	0	0
		0	0	$\frac{2\sqrt{15}}{175}$	0	0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{12}{35}$	0	0	0	0	0
		$\frac{12\sqrt{10}}{175}$	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0	0	0
		0	$-\frac{4\sqrt{30}}{525}$	0	0	0	0	$\frac{24\sqrt{5}}{175}$	0	0	0
		0	0	$-\frac{4\sqrt{15}}{75}$	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	$-\frac{12}{35}$	0

continued ...

Table 8

No.	multipole	matrix									
526	$\mathbb{M}_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	0
		$\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{4\sqrt{6}}{105}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0
		$\frac{8}{35}$	0	0	0	0	$-\frac{6}{35}$	0	0	0	0
		0	$\frac{4\sqrt{6}}{105}$	0	0	0	0	$\frac{6}{35}$	0	0	0
		0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0
527	$\mathbb{M}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0
		$\frac{2\sqrt{3}}{35}$	0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0
		$\frac{4\sqrt{3}}{35}$	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0
		0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0

continued ...

Table 8

No.	multipole	matrix										
528	$\mathbb{M}_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{21}$
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
529	$\mathbb{M}_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 8

No.	multipole	matrix									
530	$\mathbb{M}_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{63}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
531	$\mathbb{M}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{105}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{21}}{63}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 8

No.	multipole	matrix									
532	$\mathbb{M}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{63}$	0	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{6}}{63}$	0	0	0
		0	0	0	0	0	0	0	$\frac{10\sqrt{3}}{63}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{63}$	0
		0	0	0	0	0	0	0	0	0	0
533	$\mathbb{M}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{5}}{63}$	0	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{5}}{63}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{5}}{63}$	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{5}}{63}$	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{63}$	0

continued ...



Table 8

No.	multipole	matrix									
534	$\mathbb{M}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{3}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{6}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{63}$	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{63}$	0
535	$\mathbb{M}_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{105}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{21}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{21}}{63}$	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{63}$	0	0

continued ...

Table 8

No.	multipole	matrix									
536	$\mathbb{M}_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{63}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{7}}{63}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{70}}{63}$	0	0	0
537	$\mathbb{M}_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{70}}{21}$	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{70}}{21}$	0	0	0	0

*continued ...*

Table 8

No.	multipole	matrix									
538	$\mathbb{M}_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{35}}{21}$	0	0	0	0	0
539	$\mathbb{M}_{1,1}^{(1,1;a)}$	0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{10}}{50}$	0	0	0
		0	0	$-\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{\sqrt{30}}{50}$	0	0
		0	0	0	$-\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{15}}{25}$	0
		0	0	0	0	0	0	0	0	0	$\frac{1}{5}$
		$-\frac{1}{5}$	0	0	0	0	$\frac{4}{35}$	0	0	0	0
		0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$\frac{8\sqrt{10}}{175}$	0	0	0
		0	0	$-\frac{\sqrt{30}}{50}$	0	0	0	0	$\frac{12\sqrt{5}}{175}$	0	0
		0	0	0	$-\frac{\sqrt{10}}{50}$	0	0	0	0	$\frac{8\sqrt{10}}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{4}{35}$
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
540	$\mathbb{M}_{1,0}^{(1,1;a)}$	$\frac{3\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	0
		0	$\frac{\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{15}}{25}$	0	0	0
		0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{15}}{25}$	0	0
		0	0	0	$-\frac{3\sqrt{10}}{25}$	0	0	0	0	$-\frac{\sqrt{10}}{25}$	0
		0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	0
		$-\frac{\sqrt{10}}{25}$	0	0	0	0	$-\frac{6\sqrt{10}}{175}$	0	0	0	0
		0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$-\frac{2\sqrt{10}}{175}$	0	0	0
		0	0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$\frac{2\sqrt{10}}{175}$	0	0
		0	0	0	$-\frac{\sqrt{10}}{25}$	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{35}$
541	$\mathbb{M}_{1,-1}^{(1,1;a)}$	0	0	0	0	$\frac{1}{5}$	0	0	0	0	0
		$\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{15}}{25}$	0	0	0	0
		0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	$\frac{\sqrt{30}}{50}$	0	0	0
		0	0	$\frac{2\sqrt{15}}{25}$	0	0	0	0	$\frac{\sqrt{10}}{50}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4}{35}$	0	0	0	0	0
		$-\frac{\sqrt{10}}{50}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0	0	0
		0	$-\frac{\sqrt{30}}{50}$	0	0	0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0
		0	0	$-\frac{\sqrt{15}}{25}$	0	0	0	0	$-\frac{8\sqrt{10}}{175}$	0	0
		0	0	0	$-\frac{1}{5}$	0	0	0	0	$-\frac{4}{35}$	0

continued ...

Table 8

No.	multipole	matrix									
542	$\mathbb{M}_{3,3}^{(1,1;a)}$	0	0	0	$\frac{8\sqrt{5}}{35}$	0	0	0	0	$-\frac{3\sqrt{5}}{70}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	$-\frac{2\sqrt{2}}{63}$	0	0
		0	0	0	$\frac{3\sqrt{5}}{70}$	0	0	0	0	$-\frac{8\sqrt{5}}{315}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
543	$\mathbb{M}_{3,2}^{(1,1;a)}$	0	0	$-\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0
		0	0	0	$\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{10}}{70}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$
		0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	$\frac{2\sqrt{3}}{63}$	0	0	0
		0	0	$\frac{\sqrt{10}}{70}$	0	0	0	0	$\frac{2\sqrt{15}}{315}$	0	0
		0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	$-\frac{2\sqrt{15}}{315}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{63}$
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0

continued ...

Table 8

No.	multipole	matrix									
544	$\mathbb{M}_{3,1}^{(1,1;a)}$	0	$\frac{8}{35}$	0	0	0	0	$-\frac{3\sqrt{6}}{70}$	0	0	0
		0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0
		0	0	0	$\frac{8}{35}$	0	0	0	0	$\frac{1}{10}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{70}$
		$\frac{\sqrt{15}}{70}$	0	0	0	0	$-\frac{4\sqrt{15}}{315}$	0	0	0	0
		0	$-\frac{1}{10}$	0	0	0	0	$\frac{2\sqrt{6}}{315}$	0	0	0
		0	0	$-\frac{\sqrt{2}}{70}$	0	0	0	0	$\frac{8\sqrt{3}}{315}$	0	0
		0	0	0	$\frac{3\sqrt{6}}{70}$	0	0	0	0	$\frac{2\sqrt{6}}{315}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{315}$
		0	0	0	0	0	0	0	0	0	0
545	$\mathbb{M}_{3,0}^{(1,1;a)}$	$-\frac{4}{35}$	0	0	0	0	$\frac{3}{35}$	0	0	0	0
		0	$\frac{12}{35}$	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0
		0	0	$-\frac{12}{35}$	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	$\frac{3}{35}$	0
		0	0	0	0	$\frac{2}{63}$	0	0	0	0	0
		$\frac{3}{35}$	0	0	0	0	$-\frac{2}{45}$	0	0	0	0
		0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$-\frac{8}{315}$	0	0	0
		0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	$\frac{8}{315}$	0	0
		0	0	0	$\frac{3}{35}$	0	0	0	0	$\frac{2}{45}$	0
		0	0	0	0	0	0	0	0	0	$-\frac{2}{63}$

continued ...

Table 8

No.	multipole	matrix									
546	$\mathbb{M}_{3,-1}^{(1,1;a)}$	0	0	0	0	$-\frac{\sqrt{15}}{70}$	0	0	0	0	0
		$-\frac{8}{35}$	0	0	0	0	$\frac{1}{10}$	0	0	0	0
		0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0	0
		0	0	$-\frac{8}{35}$	0	0	0	0	$-\frac{3\sqrt{6}}{70}$	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}}{315}$	0	0	0	0	0
		$\frac{3\sqrt{6}}{70}$	0	0	0	0	$-\frac{2\sqrt{6}}{315}$	0	0	0	0
		0	$-\frac{\sqrt{2}}{70}$	0	0	0	0	$-\frac{8\sqrt{3}}{315}$	0	0	0
		0	0	$-\frac{1}{10}$	0	0	0	0	$-\frac{2\sqrt{6}}{315}$	0	0
		0	0	0	$\frac{\sqrt{15}}{70}$	0	0	0	0	$\frac{4\sqrt{15}}{315}$	0
547	$\mathbb{M}_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	0
		$-\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{10}}{70}$	0	0	0	0
		0	$\frac{4\sqrt{10}}{35}$	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{3}}{63}$	0	0	0	0	0
		$\frac{\sqrt{15}}{35}$	0	0	0	0	$\frac{2\sqrt{15}}{315}$	0	0	0	0
		0	$\frac{\sqrt{10}}{70}$	0	0	0	0	$-\frac{2\sqrt{15}}{315}$	0	0	0
		0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	$-\frac{2\sqrt{3}}{63}$	0	0

continued ...

Table 8

No.	multipole	matrix									
548	$\mathbb{M}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0	0
		$-\frac{8\sqrt{5}}{35}$	0	0	0	0	$-\frac{3\sqrt{5}}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{2}}{63}$	0	0	0	0	0
		$\frac{3\sqrt{5}}{70}$	0	0	0	0	$\frac{8\sqrt{5}}{315}$	0	0	0	0
		0	$\frac{\sqrt{3}}{14}$	0	0	0	0	$\frac{2\sqrt{2}}{63}$	0	0	0

$$\begin{aligned} \text{bra:} &= |\tfrac{3}{2}, \tfrac{3}{2}; d\rangle, |\tfrac{3}{2}, \tfrac{1}{2}; d\rangle, |\tfrac{3}{2}, -\tfrac{1}{2}; d\rangle, |\tfrac{3}{2}, -\tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{5}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; d\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; d\rangle \\ \text{ket:} &= |\tfrac{5}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{7}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{7}{2}; f\rangle \end{aligned}$$



Table 9: (d,f) block.

No.	multipole	matrix														
549	$\mathbb{Q}_{1,1}^{(a)}$	0	0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	0
		0	0	$\frac{4}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0
550	$\mathbb{Q}_{1,0}^{(a)}$	0	$\frac{2}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2}{5}$	0	0	0	0	0	0	0	0	0	0
		$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{1}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0
		0	0	0	$\frac{1}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0
		0	0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0

*continued ...*

Table 9

No.	multipole	matrix													
551	$\mathbb{Q}_{1,-1}^{(a)}$	$-\frac{\sqrt{10}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{4}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0
		0	0	0	$-\frac{4}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	$-\frac{1}{7}$	0	0	0
552	$\mathbb{Q}_{3,3}^{(a)}$	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
553	$\mathbb{Q}_{3,2}^{(a)}$	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0		
		0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	$-\frac{1}{7}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{21}$		
		0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0		
		0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
554	$\mathbb{Q}_{3,1}^{(a)}$	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0		
		0	0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0		
		0	0	0	0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	
		0	$-\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	
		0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	
		0	0	0	$\frac{8\sqrt{3}}{105}$	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	
		0	0	0	0	$\frac{2\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0		
		0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	

continued ...

Table 9

No.	multipole	matrix														
555	$\mathbb{Q}_{3,0}^{(a)}$	0	$-\frac{6}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{6}}{35}$	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0
		0	0	0	0	$-\frac{6}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0
		$\frac{2}{21}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	0	0
		0	$-\frac{2}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8}{105}$	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0
		0	0	0	$\frac{8}{105}$	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0
		0	0	0	0	$\frac{2}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0
556	$\mathbb{Q}_{3,-1}^{(a)}$	$\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	0
		0	$-\frac{1}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
557	$\mathbb{Q}_{3,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{4}{21}$	0	0	0
558	$\mathbb{Q}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0
		$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0
		0	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
559	$Q_{5,5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{10\sqrt{7}}{77}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
560	$Q_{5,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{11}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
561	$\mathbb{Q}_{5,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{33}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{10\sqrt{14}}{231}$	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	
		0	0	0	0	$-\frac{10\sqrt{35}}{231}$	0	0	0	0	0	$\frac{\sqrt{14}}{77}$	0	0	
		0	0	0	0	0	$\frac{10\sqrt{14}}{231}$	0	0	0	0	0	$\frac{2\sqrt{21}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
562	$\mathbb{Q}_{5,2}^{(a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{11}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{33}$	
		0	0	$-\frac{5\sqrt{21}}{231}$	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0	0	
		0	0	0	$\frac{5\sqrt{105}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{105}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{42}}{231}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{21}}{231}$	0	0	0	0	0	$\frac{8\sqrt{14}}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
563	$\mathbb{Q}_{5,1}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2}{11}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2}{33}$	0	
		0	$\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{231}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{15}}{231}$	0	0	0	0	0	$\frac{13\sqrt{5}}{231}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}}{231}$	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{23}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{231}$
564	$\mathbb{Q}_{5,0}^{(a)}$	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{33}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{33}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2}}{33}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{33}$	0	0	
		$-\frac{5}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0
		0	$\frac{25}{231}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{77}$	0	0	0	0	0
		0	0	$-\frac{50}{231}$	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0	0
		0	0	0	$\frac{50}{231}$	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0
		0	0	0	0	$-\frac{25}{231}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{77}$	0	0
		0	0	0	0	0	$\frac{5}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{231}$	0

continued ...



Table 9

No.	multipole	matrix														
565	$\mathbb{Q}_{5,-1}^{(a)}$	0	0	0	0	0	0	0	$-\frac{2}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2}{11}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}}{33}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{35}}{231}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{23}{231}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{13\sqrt{5}}{231}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}}{231}$	0	0	0
566	$\mathbb{Q}_{5,-2}^{(a)}$	0	0	0	0	0	0	$\frac{1}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{11}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2}{33}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{8\sqrt{14}}{231}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{231}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
567	$\mathbb{Q}_{5,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{2}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{14}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{3}}{33}$	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{77}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{77}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{14}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0
568	$\mathbb{Q}_{5,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2}{11}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{231}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
569	$\mathbb{Q}_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}}{33}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{7}}{77}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0
570	$\mathbb{Q}_{3,3}^{(1,-1;a)}$	0	0	0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	$\frac{8\sqrt{5}}{35}$	0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{210}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{10}}{35}$	0	0	0	0
		0	0	0	0	$-\frac{16\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{24\sqrt{5}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{35}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
571	$\mathbb{Q}_{3,2}^{(1,-1;a)}$	0	0	0	$-\frac{16}{35}$	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{12\sqrt{15}}{35}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{35}$
		0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	$\frac{32\sqrt{15}}{105}$	0	0	0	0
		0	0	0	$\frac{12}{35}$	0	0	0	0	0	$\frac{16\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$-\frac{12}{35}$	0	0	0	0	0	$\frac{8\sqrt{10}}{35}$	0	0
		0	0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
572	$\mathbb{Q}_{3,1}^{(1,-1;a)}$	0	0	$\frac{24\sqrt{10}}{175}$	0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{30}}{525}$	0	0	0	0	0	$\frac{12\sqrt{10}}{35}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{15}}{75}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{8}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$
		0	$-\frac{24}{35}$	0	0	0	0	0	$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{16\sqrt{30}}{105}$	0	0	0	0
		0	0	0	$\frac{48\sqrt{5}}{175}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0
		0	0	0	0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{8}{7}$	0
		0	0	0	0	0	$-\frac{24}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{210}}{105}$

continued ...

Table 9

No.	multipole	matrix													
573	$\mathbb{Q}_{3,0}^{(1,-1;a)}$	0	$-\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0
		0	0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0
		$\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{16\sqrt{5}}{35}$	0	0	0	0
		0	0	0	$\frac{16\sqrt{15}}{175}$	0	0	0	0	0	0	$-\frac{16\sqrt{5}}{35}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	0	$\frac{16\sqrt{10}}{35}$
574	$\mathbb{Q}_{3,-1}^{(1,-1;a)}$	$\frac{8}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{30}}{525}$	0	0	0	0	0	0	$-\frac{12\sqrt{10}}{35}$	0	0	0	0
		0	0	0	$\frac{24\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{210}}{105}$	0	0	0	0	0	0	0
		$\frac{24}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}}{21}$	0	0	0	0	0	0
		0	$-\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{8}{7}$	0	0	0	0	0
		0	0	$-\frac{48\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{16\sqrt{30}}{105}$	0	0	0
		0	0	0	0	$\frac{24}{35}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{35}$	0	0

continued ...

Table 9

No.	multipole	matrix													
575	$\mathbb{Q}_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{35}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{12\sqrt{15}}{35}$	0	0	0	0	0
		0	0	$-\frac{16}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{16\sqrt{105}}{105}$	0	0	0	0	0	0	0
		$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0	0	0	0	0	0
		0	$\frac{12}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$-\frac{12}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{32\sqrt{15}}{105}$	0	0	0
576	$\mathbb{Q}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{210}}{35}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{35}}{35}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{24\sqrt{5}}{35}$	0	0	0	0	0	0
		0	$\frac{16\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{35}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
577	$\mathbb{Q}_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{15}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{8\sqrt{35}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{6}}{15}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
578	$\mathbb{Q}_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{75}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{70}}{105}$	0	0	0	0	0	0	$-\frac{16\sqrt{7}}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{70}}{105}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{30}}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
579	$\mathbb{Q}_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{75}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}}{75}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{10}}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{8\sqrt{70}}{315}$	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{7}}{63}$	0	0	0	0	0	$-\frac{8\sqrt{70}}{175}$	0	0	
		0	0	0	0	0	$\frac{8\sqrt{70}}{315}$	0	0	0	0	0	$-\frac{16\sqrt{105}}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{15}}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
580	$\mathbb{Q}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{25}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{75}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{75}$	
		0	0	$-\frac{4\sqrt{105}}{315}$	0	0	0	0	0	$-\frac{16\sqrt{35}}{105}$	0	0	0	0	
		0	0	0	$\frac{4\sqrt{21}}{63}$	0	0	0	0	0	$\frac{32\sqrt{7}}{105}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{21}}{63}$	0	0	0	0	0	$\frac{16\sqrt{210}}{525}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{105}}{315}$	0	0	0	0	0	$-\frac{64\sqrt{70}}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{5}}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...



Table 9

No.	multipole	matrix													
581	$\mathbb{Q}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{4}{15}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{25}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{75}$	0	
		0	$\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{104}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{8\sqrt{2}}{105}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{88\sqrt{30}}{525}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{7}}{105}$
582	$\mathbb{Q}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{2}}{15}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{15}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}}{15}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{15}$	0	0	
		$-\frac{4\sqrt{5}}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0	0	0	0	0	
		0	$\frac{4\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{24\sqrt{2}}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{63}$	0	0	0	0	0	$-\frac{16\sqrt{15}}{105}$	0	0	0	0	
		0	0	0	$\frac{8\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}}{105}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{24\sqrt{2}}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{105}$	0

continued ...

Table 9

No.	multipole	matrix													
583	$\mathbb{Q}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{75}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4}{15}$	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{7}}{105}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}}{525}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{88\sqrt{30}}{525}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{8\sqrt{2}}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{104}{105}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{21}$	0	0
584	$\mathbb{Q}_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{75}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{75}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{25}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{16\sqrt{5}}{75}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{64\sqrt{70}}{525}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{21}}{63}$	0	0	0	0	0	0	$\frac{16\sqrt{210}}{525}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{21}}{63}$	0	0	0	0	0	0	$\frac{32\sqrt{7}}{105}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{105}}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{35}}{105}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
585	$\mathbb{Q}_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{10}}{75}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{70}}{75}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{70}}{75}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{16\sqrt{15}}{75}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{70}}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{175}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{7}}{63}$	0	0	0	0	0	0	$-\frac{8\sqrt{70}}{175}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{70}}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0	0	0	0
586	$\mathbb{Q}_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{5}}{25}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{75}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{16\sqrt{30}}{75}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}}{105}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}}{525}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{70}}{105}$	0	0	0	0	0	0	$-\frac{16\sqrt{7}}{35}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
587	$\mathbb{Q}_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{6}}{15}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{35}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{210}}{105}$	0	0	0	0	0	0
588	$\mathbb{Q}_{1,1}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}}{10}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{10}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0
		0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	0	0
		0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0
		0	0	0	$-\frac{18}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0
		0	0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$	0

continued ...

Table 9

No.	multipole	matrix														
589	$\mathbb{Q}_{1,0}^{(1,0;a)}$	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{2}}{5}$	0	0	0	0	0	0	0	0	0	0
		$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	0
		0	$\frac{9\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{7}$	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0
		0	0	0	0	$-\frac{9\sqrt{2}}{35}$	0	0	0	0	0	$\frac{\sqrt{5}}{7}$	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0
590	$\mathbb{Q}_{1,-1}^{(1,0;a)}$	$\frac{\sqrt{5}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{10}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{10}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$	0	0	0	0	0	0	0	0
		$\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	0
		0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{7}$	0	0	0	0	0	0
		0	0	$\frac{18}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0	0
		0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0
		0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0

continued ...

Table 9

No.	multipole	matrix														
591	$\mathbb{Q}_{3,3}^{(1,0;a)}$	0	0	0	0	$-\frac{3\sqrt{15}}{700}$	0	0	0	0	0	$\frac{\sqrt{6}}{70}$	0	0		
		0	0	0	0	0	$-\frac{3}{140}$	0	0	0	0	0	$\frac{\sqrt{6}}{35}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{70}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	0	$\frac{\sqrt{2}}{140}$	0	0	0		
		0	0	0	0	$\frac{4\sqrt{15}}{175}$	0	0	0	0	0	$\frac{\sqrt{6}}{140}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0	0	$\frac{3}{140}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}}{140}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
592	$\mathbb{Q}_{3,2}^{(1,0;a)}$	0	0	0	$\frac{3\sqrt{5}}{350}$	0	0	0	0	0	$-\frac{\sqrt{15}}{70}$	0	0	0		
		0	0	0	0	$\frac{\sqrt{30}}{700}$	0	0	0	0	0	$-\frac{3\sqrt{3}}{70}$	0	0		
		0	0	0	0	0	$-\frac{\sqrt{6}}{140}$	0	0	0	0	0	0	$-\frac{3}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{70}$		
		0	0	$-\frac{3}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}}{105}$	0	0	0	0		
		0	0	0	$-\frac{3\sqrt{5}}{175}$	0	0	0	0	0	$-\frac{\sqrt{15}}{210}$	0	0	0		
		0	0	0	0	$\frac{3\sqrt{5}}{175}$	0	0	0	0	0	$-\frac{\sqrt{2}}{140}$	0	0		
		0	0	0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{420}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{210}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 9

No.	multipole	matrix													
593	$\mathbb{Q}_{3,1}^{(1,0;a)}$	0	0	$-\frac{9\sqrt{2}}{700}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{35}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{700}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{70}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{100}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}}{700}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{70}$	0
		0	$\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{210}$	0	0	0	0
		0	0	0	$-\frac{12}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{420}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{140}$	0	0
		0	0	0	0	0	$\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{420}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{420}$
594	$\mathbb{Q}_{3,0}^{(1,0;a)}$	0	$\frac{3\sqrt{3}}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{70}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{2}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{70}$	0	0	0
		0	0	0	0	$\frac{3\sqrt{3}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0
		$-\frac{\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{70}$	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}}{175}$	0	0	0	0	0	0	$\frac{1}{70}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{175}$	0	0	0	0	0	0	$\frac{1}{70}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}}{25}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{70}$	0

continued ...

Table 9

No.	multipole	matrix														
595	$\mathbb{Q}_{3,-1}^{(1,0;a)}$	$-\frac{3\sqrt{5}}{700}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{100}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{700}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{70}$	0	0	0	0	0
		0	0	0	$-\frac{9\sqrt{2}}{700}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}}{420}$	0	0	0	0	0	0	0	0
		$-\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{420}$	0	0	0	0	0	0	0
		0	$\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{140}$	0	0	0	0	0	0
		0	0	$\frac{12}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{420}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{210}$	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{70}$	0	0	0
596	$\mathbb{Q}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{70}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{140}$	0	0	0	0	0	0	$\frac{3}{70}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{30}}{700}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{70}$	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{5}}{350}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{70}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{210}$	0	0	0	0	0	0	0	0
		$-\frac{3}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{420}$	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{140}$	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{210}$	0	0	0	0	0
		0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{105}$	0	0	0	0

continued ...



Table 9

No.	multipole	matrix														
597	$\mathbb{Q}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{70}$	0	0	0	0	0	0	0	0
		$-\frac{3}{140}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{15}}{700}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{70}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{7}}{140}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{3}{140}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{15}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{140}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{140}$	0	0	0	0	0
598	$\mathbb{Q}_{5,5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4}{77}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{210}}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{231}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	0	0	0	0	0	0	0	0	0	0	0	0		

continued ...

Table 9

No.	multipole	matrix												
599	$\mathbb{Q}_{5,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{70}}{385}$	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{385}$	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{2\sqrt{105}}{539}$	0	0	0	0	0	$\frac{\sqrt{42}}{1617}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{105}}{539}$	0	0	0	0	0	$\frac{\sqrt{70}}{8085}$	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{1155}$	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	
600	$\mathbb{Q}_{5,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{42}}{1617}$	0	0	0	0	0	$\frac{\sqrt{105}}{8085}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	$\frac{\sqrt{70}}{2695}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
601	$\mathbb{Q}_{5,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{385}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{385}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{1155}$	
		0	0	$\frac{\sqrt{70}}{539}$	0	0	0	0	0	$\frac{\sqrt{210}}{4851}$	0	0	0	0	
		0	0	0	$-\frac{5\sqrt{14}}{539}$	0	0	0	0	0	$-\frac{2\sqrt{42}}{4851}$	0	0	0	
		0	0	0	0	$\frac{5\sqrt{14}}{539}$	0	0	0	0	0	$-\frac{2\sqrt{35}}{8085}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{70}}{539}$	0	0	0	0	0	$\frac{8\sqrt{105}}{24255}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{3465}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
602	$\mathbb{Q}_{5,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}}{77}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{385}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{1155}$	0	
		0	$-\frac{2\sqrt{5}}{539}$	0	0	0	0	0	$-\frac{5\sqrt{2}}{3234}$	0	0	0	0	0	
		0	0	$\frac{10\sqrt{2}}{539}$	0	0	0	0	0	$\frac{13\sqrt{6}}{9702}$	0	0	0	0	
		0	0	0	$-\frac{20}{539}$	0	0	0	0	0	$-\frac{\sqrt{3}}{4851}$	0	0	0	
		0	0	0	0	$\frac{10\sqrt{2}}{539}$	0	0	0	0	0	$-\frac{\sqrt{5}}{735}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{5}}{539}$	0	0	0	0	0	$\frac{23\sqrt{30}}{48510}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{9702}$	

continued ...

Table 9

No.	multipole	matrix														
603	$\mathbb{Q}_{5,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{231}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{231}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{231}$	0	0	0
		$\frac{\sqrt{30}}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{1617}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{30}}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{539}$	0	0	0	0	0	0
		0	0	$\frac{10\sqrt{30}}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{1617}$	0	0	0	0	0
		0	0	0	$-\frac{10\sqrt{30}}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{1617}$	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{30}}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{539}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{1617}$	0	0	0	0	0	0	0	$\frac{\sqrt{5}}{1617}$	0
604	$\mathbb{Q}_{5,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{1155}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}}{385}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{77}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{231}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{9702}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{5}}{539}$	0	0	0	0	0	0	$\frac{23\sqrt{30}}{48510}$	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{2}}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{5}}{735}$	0	0	0	0	0	0
		0	0	$\frac{20}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{4851}$	0	0	0	0	0
		0	0	0	$-\frac{10\sqrt{2}}{539}$	0	0	0	0	0	0	$\frac{13\sqrt{6}}{9702}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{5}}{539}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{3234}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
605	$\mathbb{Q}_{5,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{1155}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{70}}{385}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{385}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{231}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}}{3465}$	0	0	0	0	0	0	0
		$\frac{\sqrt{70}}{539}$	0	0	0	0	0	0	$\frac{8\sqrt{105}}{24255}$	0	0	0	0	0	0
		0	$-\frac{5\sqrt{14}}{539}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{8085}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{14}}{539}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{4851}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}}{539}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{4851}$	0	0	0
606	$\mathbb{Q}_{5,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{15}}{1155}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}}{1155}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{10}}{1155}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{2695}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{42}}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{8085}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{105}}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
607	$\mathbb{Q}_{5,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}}{385}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{70}}{385}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{5}}{1155}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{105}}{539}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{8085}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{105}}{539}$	0	0	0	0	0	0	$\frac{\sqrt{42}}{1617}$	0	0	0	0	0
608	$\mathbb{Q}_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4}{77}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{1}{231}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{210}}{539}$	0	0	0	0	0	0	$-\frac{\sqrt{35}}{1617}$	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
609	$\mathbb{Q}_{1,1}^{(1,1;a)}$	0	0	$\frac{4\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{4\sqrt{30}}{25}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{8}{5}$	0	0	0	0	0	0	0	0	
		0	$\frac{32}{35}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	
		0	0	$\frac{64\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	
		0	0	0	$\frac{96\sqrt{5}}{175}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	
		0	0	0	0	$\frac{64\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{4}{7}$	0	0	0	
		0	0	0	0	0	$\frac{32}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$	0	
610	$\mathbb{Q}_{1,0}^{(1,1;a)}$	0	$-\frac{8\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	
		$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	
		0	$-\frac{48\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{7}$	0	0	0	0	0	
		0	0	$-\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	
		0	0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	
		0	0	0	0	$\frac{48\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{7}$	0	0	
		0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	

continued ...

Table 9

No.	multipole	matrix													
611	$\mathbb{Q}_{1,-1}^{(1,1;a)}$	$\frac{8}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{15}}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{30}}{25}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$	0	0	0	0	0	0	0
		$-\frac{32}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$-\frac{64\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0
		0	0	$-\frac{96\sqrt{5}}{175}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{64\sqrt{10}}{175}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0
		0	0	0	0	$-\frac{32}{35}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0
612	$\mathbb{Q}_{3,3}^{(1,1;a)}$	0	0	0	0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{20\sqrt{2}}{63}$	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0
		0	0	0	0	$-\frac{16\sqrt{5}}{63}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{20\sqrt{2}}{63}$	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix													
613	$\mathbb{Q}_{3,2}^{(1,1;a)}$	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{2}{7}$	0	0	
		0	0	0	0	0	$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$
		0	0	$\frac{20\sqrt{3}}{63}$	0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0
		0	0	0	0	0	$-\frac{20\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
614	$\mathbb{Q}_{3,1}^{(1,1;a)}$	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0
		0	0	0	0	1	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0
		0	$-\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$\frac{16\sqrt{3}}{63}$	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}}{63}$	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0
		0	0	0	0	0	$-\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$

continued ...

Table 9

No.	multipole	matrix													
615	$\mathbb{Q}_{3,0}^{(1,1;a)}$	0	$\frac{6}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0
		0	0	0	0	$\frac{6}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{21}$	0	0
		$\frac{20}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0
		0	$-\frac{4}{9}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$\frac{16}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$\frac{4}{9}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{20}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0
616	$\mathbb{Q}_{3,-1}^{(1,1;a)}$	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{21}$	0	0	0	0	0	0
		0	1	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0	0	0	0	0
		0	0	$-\frac{16\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0

continued ...

Table 9

No.	multipole	matrix														
617	$\mathbb{Q}_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{21}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0	0
		$\frac{20\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	0	0	0	0
		0	0	0	$-\frac{20\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{4}{21}$	0	0	0	0
618	$\mathbb{Q}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{14}}{21}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{21}$	0	0	0	0	0	0	0	0
		$\frac{20\sqrt{2}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	0
		0	$\frac{16\sqrt{5}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0
		0	0	$\frac{20\sqrt{2}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
619	$\mathbb{G}_{2,2}^{(a)}$	0	0	0	$\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{2i}{35}$	0	0	0		
		0	0	0	0	$\frac{16\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{5}i}{35}$	0	0		
		0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{35}$		
		0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0		
		0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{16i}{35}$	0	0	0	0	
		0	0	0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{35}i}{35}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
620	$\mathbb{G}_{2,1}^{(a)}$	0	0	$-\frac{12\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{4i}{35}$	0	0	0	0		
		0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0		
		0	0	0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0		
		0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0		
		0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{7}$	0	0	0	0	0		
		0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{22i}{35}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{5}$	0	0	0		
		0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{5}i}{35}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{7}$		

continued ...

Table 9

No.	multipole	matrix														
621	$\mathbb{G}_{2,0}^{(a)}$	0	$\frac{24i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	$-\frac{24i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0
		$-\frac{2i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{7}$	0	0	0	0	0	0	0
		0	$\frac{2i}{35}$	0	0	0	0	0	0	$\frac{6\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{2i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0
		0	0	0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{7}$	0	0
622	$\mathbb{G}_{2,-1}^{(a)}$	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{4i}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{12\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{4i}{35}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{7}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{5}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{22i}{35}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
623	$\mathbb{G}_{2,-2}^{(a)}$	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{35}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0
		0	$-\frac{16\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{2i}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{35}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$-\frac{6\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{16i}{35}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0
624	$\mathbb{G}_{4,4}^{(a)}$	0	0	0	0	0	$-\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{21}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{8\sqrt{35}i}{525}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{16\sqrt{21}i}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
625	$\mathbb{G}_{4,3}^{(a)}$	0	0	0	0	$\frac{2\sqrt{35}i}{105}$	0	0	0	0	0	$\frac{6\sqrt{14}i}{175}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{21}i}{105}$	0	0	0	0	0	$\frac{4\sqrt{14}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$\frac{2\sqrt{42}i}{105}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{75}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	$-\frac{2\sqrt{21}i}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
626	$\mathbb{G}_{4,2}^{(a)}$	0	0	0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{15}i}{175}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{175}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	$\frac{22i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{175}$	
		0	0	$\frac{4i}{35}$	0	0	0	0	0	$-\frac{8\sqrt{3}i}{105}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{15}i}{525}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	$\frac{34\sqrt{2}i}{525}$	0	0	
		0	0	0	0	0	$\frac{4i}{35}$	0	0	0	0	0	$\frac{6\sqrt{6}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{21}i}{175}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix														
627	$\mathbb{G}_{4,1}^{(a)}$	0	0	$\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{175}$	0	0	0	0		
		0	0	0	$-\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{2\sqrt{10}i}{175}$	0	0	0		
		0	0	0	0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	$-\frac{8\sqrt{6}i}{175}$	0	0		
		0	0	0	0	0	$-\frac{2i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{6}i}{175}$	0	
		0	$-\frac{8i}{105}$	0	0	0	0	0	$\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{525}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{75}$	0	0	0		
		0	0	0	0	$-\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	0	$-\frac{2i}{525}$	0	0	
		0	0	0	0	0	$\frac{8i}{105}$	0	0	0	0	0	0	$\frac{26\sqrt{6}i}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{525}$	
628	$\mathbb{G}_{4,0}^{(a)}$	0	$-\frac{4i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	
		0	0	$\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	
		0	0	0	0	$\frac{4i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{175}$	0	0	
		$\frac{4i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	0	
		0	$-\frac{4i}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{10}i}{525}$	0	0	0	0	0	
		0	0	$\frac{8i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{105}$	0	0	0	0	
		0	0	0	$\frac{8i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{105}$	0	0	0	
		0	0	0	0	$-\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}i}{525}$	0	0	
		0	0	0	0	0	$\frac{4i}{105}$	0	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{105}$	0

continued ...



Table 9

No.	multipole	matrix													
629	$\mathbb{G}_{4,-1}^{(a)}$	$\frac{2i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{6}i}{175}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{8\sqrt{6}i}{175}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{175}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{175}$	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{210}i}{525}$	0	0	0	0	0	0	0
		$\frac{8i}{105}$	0	0	0	0	0	0	$-\frac{26\sqrt{6}i}{525}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	0	$\frac{2i}{525}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{75}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{525}$	0	0	0
		0	0	0	0	$-\frac{8i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{10}i}{105}$	0	0
630	$\mathbb{G}_{4,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{175}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{22i}{175}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{175}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{15}i}{175}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{21}i}{175}$	0	0	0	0	0	0	0
		$\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{6}i}{175}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	0	$-\frac{34\sqrt{2}i}{525}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{5}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{525}$	0	0	0	0
		0	0	0	$\frac{4i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0	0

continued ...

Table 9

No.	multipole	matrix														
631	$\mathbb{G}_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{25}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{21}i}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{14}i}{175}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{35}i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{14}i}{175}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}i}{25}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{525}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{75}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{105}$	0	0	0	0	0
632	$\mathbb{G}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4i}{25}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{21}i}{175}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{6}i}{75}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$\frac{16\sqrt{21}i}{525}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{14}i}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{35}i}{525}$	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
633	$\mathbb{G}_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{35}$
		0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	$\frac{\sqrt{30}i}{35}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{6\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
634	$\mathbb{G}_{2,1}^{(1,-1;a)}$	0	0	$\frac{9\sqrt{2}i}{70}$	0	0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0
		0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{3\sqrt{2}i}{14}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{11\sqrt{6}i}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{30}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$

continued ...

Table 9

No.	multipole	matrix													
635	$\mathbb{G}_{2,0}^{(1,-1;a)}$	0	$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	0
		0	0	$-\frac{3i}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}i}{35}$	0	0	0	0
		0	0	0	$\frac{3i}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}i}{35}$	0	0	0
		0	0	0	0	$\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0
		$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{3i}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{15}i}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}i}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$-\frac{3i}{7}$	0
636	$\mathbb{G}_{2,-1}^{(1,-1;a)}$	$\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{14}$	0	0	0	0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	$-\frac{9\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{14}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{70}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{11\sqrt{6}i}{70}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{14}$	0	0

continued ...

Table 9

No.	multipole	matrix													
637	$\mathbb{G}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{35}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	0	0
		0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0
		0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{10}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0
638	$\mathbb{G}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{70}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
639	$\mathbb{G}_{4,3}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{5}i}{140}$	0	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0
		0	0	0	0	0	$\frac{\sqrt{3}i}{140}$	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{6}i}{28}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{20}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{140}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{140}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
640	$\mathbb{G}_{4,2}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{35}i}{490}$	0	0	0	0	0	$\frac{3\sqrt{105}i}{490}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{210}i}{980}$	0	0	0	0	0	$\frac{\sqrt{21}i}{490}$	0	0
		0	0	0	0	0	$\frac{\sqrt{42}i}{980}$	0	0	0	0	0	$-\frac{11\sqrt{7}i}{490}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{70}$
		0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	$-\frac{\sqrt{21}i}{49}$	0	0	0	0
		0	0	0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{490}$	0	0	0
		0	0	0	0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	$\frac{17\sqrt{14}i}{980}$	0	0
		0	0	0	0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	$\frac{9\sqrt{42}i}{980}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{3}i}{70}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
641	$\mathbb{G}_{4,1}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{70}i}{980}$	0	0	0	0	0	$-\frac{\sqrt{210}i}{245}$	0	0	0	0		
		0	0	0	$\frac{\sqrt{210}i}{980}$	0	0	0	0	0	$\frac{\sqrt{70}i}{490}$	0	0	0		
		0	0	0	0	$-\frac{\sqrt{105}i}{980}$	0	0	0	0	0	$\frac{2\sqrt{42}i}{245}$	0	0		
		0	0	0	0	0	$\frac{\sqrt{7}i}{980}$	0	0	0	0	0	$-\frac{3\sqrt{42}i}{490}$	0		
		0	$\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	$\frac{\sqrt{70}i}{98}$	0	0	0	0	0		
		0	0	$-\frac{\sqrt{70}i}{245}$	0	0	0	0	0	$-\frac{\sqrt{210}i}{490}$	0	0	0	0		
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{140}$	0	0	0		
		0	0	0	0	$\frac{\sqrt{70}i}{245}$	0	0	0	0	0	$-\frac{\sqrt{7}i}{980}$	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	$\frac{13\sqrt{42}i}{980}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{140}$	
642	$\mathbb{G}_{4,0}^{(1,-1;a)}$	0	$\frac{\sqrt{7}i}{490}$	0	0	0	0	0	0	$\frac{3\sqrt{70}i}{490}$	0	0	0	0	0	
		0	0	$-\frac{\sqrt{42}i}{490}$	0	0	0	0	0	0	$-\frac{\sqrt{14}i}{98}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{42}i}{490}$	0	0	0	0	0	0	$-\frac{\sqrt{14}i}{98}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{7}i}{490}$	0	0	0	0	0	0	$\frac{3\sqrt{70}i}{490}$	0	0	
		$-\frac{\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{98}$	0	0	0	0	0	0	
		0	$\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{70}i}{245}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{98}$	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{98}$	0	0	0	
		0	0	0	0	$\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{245}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{7}i}{245}$	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{98}$	0

continued ...

Table 9

No.	multipole	matrix													
643	$\mathbb{G}_{4,-1}^{(1,-1;a)}$	$-\frac{\sqrt{7}i}{980}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}i}{490}$	0	0	0	0	0	0
		0	$\frac{\sqrt{105}i}{980}$	0	0	0	0	0	0	$\frac{2\sqrt{42}i}{245}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{210}i}{980}$	0	0	0	0	0	0	$\frac{\sqrt{70}i}{490}$	0	0	0	0
		0	0	0	$\frac{\sqrt{70}i}{980}$	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{245}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}i}{140}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{13\sqrt{42}i}{980}$	0	0	0	0	0	0
		0	$\frac{\sqrt{70}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{7}i}{980}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}i}{140}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{210}i}{490}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{98}$	0	0
644	$\mathbb{G}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{70}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{42}i}{980}$	0	0	0	0	0	0	$-\frac{11\sqrt{7}i}{490}$	0	0	0	0	0	0
		0	$\frac{\sqrt{210}i}{980}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{490}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{35}i}{490}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{490}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	0	0
		$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{980}$	0	0	0	0	0	0
		0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	0	$-\frac{17\sqrt{14}i}{980}$	0	0	0	0	0
		0	0	$\frac{\sqrt{35}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{105}i}{490}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{7}i}{245}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{49}$	0	0	0

continued ...



Table 9

No.	multipole	matrix													
645	$\mathbb{G}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}i}{140}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0
		0	$\frac{\sqrt{5}i}{140}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}i}{70}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{21}i}{140}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{140}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{20}$	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{28}$	0	0	0	0
646	$\mathbb{G}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{70}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{35}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{35}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix															
647	$\mathbb{G}_{6,6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{3}i}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
648	$\mathbb{G}_{6,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{7}i}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{5}i}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix															
649	$\mathbb{G}_{6,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}i}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{770}i}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{55}i}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
650	$\mathbb{G}_{6,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{231}i}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{77}i}{847}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{462}i}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}i}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
651	$\mathbb{G}_{6,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}i}{7623}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}i}{7623}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{154}i}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{462}i}{7623}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{33}i}{7623}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
652	$\mathbb{G}_{6,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{154}i}{5082}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}i}{15246}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{231}i}{7623}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}i}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2310}i}{15246}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}i}{15246}$	0

continued ...

Table 9

No.	multipole	matrix													
653	$\mathbb{G}_{6,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{11}i}{2541}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{165}i}{2541}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{22}i}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{22}i}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{165}i}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{11}i}{2541}$	0	0
654	$\mathbb{G}_{6,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{66}i}{15246}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{2310}i}{15246}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{385}i}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{231}i}{7623}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{462}i}{15246}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{154}i}{5082}$	0	0

continued ...

Table 9

No.	multipole	matrix											
655	$\mathbb{G}_{6,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{33}i}{7623}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{462}i}{7623}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{154}i}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}i}{7623}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}i}{7623}$	0	0
656	$\mathbb{G}_{6,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{66}i}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{462}i}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{77}i}{847}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{231}i}{2541}$	0	0	0

continued ...

Table 9

No.	multipole	matrix														
657	$\mathbb{G}_{6,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{55}i}{2541}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{770}i}{2541}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{462}i}{2541}$	0	0	0	0	0	0
658	$\mathbb{G}_{6,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{5}i}{231}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{7}i}{231}$	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole				matrix													
659	$\mathbb{G}_{6,-6}^{(1,-1;a)}$				0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
660	$\mathbb{G}_{2,2}^{(1,0;a)}$				0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0
					0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix														
661	$\mathbb{G}_{2,1}^{(1,0;a)}$	0	0	$-\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0	
		0	0	0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	
		0	$\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{7}$	0	0	0	0	0	
		0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{22\sqrt{6}i}{105}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{15}$	0	0	0	
		0	0	0	0	$-\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	
		0	0	0	0	0	$-\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{21}$	
662	$\mathbb{G}_{2,0}^{(1,0;a)}$	0	$\frac{8\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}i}{35}$	0	0	0	0	0	
		0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$-\frac{24\sqrt{3}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{8i}{35}$	0	0	0	0	0	0	$-\frac{24\sqrt{3}i}{35}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}i}{35}$	0	0	
		$-\frac{4\sqrt{6}i}{7}$	0	0	0	0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	0	
		0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{35}$	0	0	0	0	0	
		0	0	$\frac{16\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{35}$	0	0	0	0	
		0	0	0	$\frac{16\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{2}i}{35}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{35}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{6}i}{7}$	0	0	0	0	0	0	$\frac{4i}{7}$	0	

continued ...

Table 9

No.	multipole	matrix														
663	$\mathbb{G}_{2,-1}^{(1,0;a)}$	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{42}i}{21}$	0	0	0	0	0	0	0	0
		$-\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	0
		0	$-\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{15}$	0	0	0	0	0
		0	0	0	$\frac{24\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{22\sqrt{6}i}{105}$	0	0	0	0
		0	0	0	0	$\frac{24\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{7}$	0	0	0
664	$\mathbb{G}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{35}$	0	0	0	0	0	0	0	0
		$-\frac{16\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	0	0
		0	$-\frac{32\sqrt{3}i}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{210}i}{105}$	0	0	0	0	0	0	0	0
		$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0	0	0	0	0
		0	$-\frac{36\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0
		0	0	$-\frac{36\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{6}i}{105}$	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{30}i}{105}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
665	$\mathbb{G}_{4,4}^{(1,0;a)}$	0	0	0	0	0	$-\frac{2\sqrt{70}i}{105}$	0	0	0	0	0	$\frac{12\sqrt{105}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{12\sqrt{5}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{7}i}{105}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$\frac{8\sqrt{105}i}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{75}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
666	$\mathbb{G}_{4,3}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{7}i}{21}$	0	0	0	0	0	$-\frac{18\sqrt{70}i}{175}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{105}i}{105}$	0	0	0	0	0	$-\frac{12\sqrt{70}i}{175}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{10}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{210}i}{105}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{75}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	$\frac{\sqrt{105}i}{525}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{25}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
667	$\mathbb{G}_{4,2}^{(1,0;a)}$	0	0	0	$-\frac{2i}{21}$	0	0	0	0	0	$\frac{18\sqrt{3}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0	0	$\frac{6\sqrt{15}i}{175}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{66\sqrt{5}i}{175}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{105}i}{175}$
		0	0	$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{105}$	0	0	0
		0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0
		0	0	0	0	$-\frac{4i}{7}$	0	0	0	0	0	$-\frac{17\sqrt{10}i}{525}$	0	0
		0	0	0	0	0	$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{3\sqrt{30}i}{175}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{175}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
668	$\mathbb{G}_{4,1}^{(1,0;a)}$	0	0	$\frac{\sqrt{2}i}{21}$	0	0	0	0	0	$-\frac{12\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{21}$	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}i}{21}$	0	0	0	0	0	$\frac{24\sqrt{30}i}{175}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}i}{105}$	0	0	0	0	0	$-\frac{18\sqrt{30}i}{175}$	0
		0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{2}i}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{15}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	$\frac{\sqrt{5}i}{525}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{13\sqrt{30}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{105}$

continued ...

Table 9

No.	multipole	matrix														
669	$\mathbb{G}_{4,0}^{(1,0;a)}$	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{2}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{5}i}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{2}i}{35}$	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{105}$	0	0	0	0	0	0	0
		0	$-\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{2}i}{105}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{105}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{105}$	0	0	0	0
		0	0	0	0	$-\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{2}i}{105}$	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{105}$	0
670	$\mathbb{G}_{4,-1}^{(1,0;a)}$	$\frac{\sqrt{5}i}{105}$	0	0	0	0	0	0	$-\frac{18\sqrt{30}i}{175}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{24\sqrt{30}i}{175}$	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{2}i}{35}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{21}$	0	0	0	0	0	0	$-\frac{12\sqrt{6}i}{35}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{105}$	0	0	0	0	0	0	0	0
		$\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{13\sqrt{30}i}{525}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{525}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{15}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0
		0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{21}$	0	0

continued ...

Table 9

No.	multipole	matrix													
671	$\mathbb{G}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{6\sqrt{105}i}{175}$	0	0	0	0	0	0	0
		$\frac{\sqrt{30}i}{105}$	0	0	0	0	0	0	$-\frac{66\sqrt{5}i}{175}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{15}i}{175}$	0	0	0	0	0
		0	0	$\frac{2i}{21}$	0	0	0	0	0	0	$\frac{18\sqrt{3}i}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{175}$	0	0	0	0	0	0	0
		$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{30}i}{175}$	0	0	0	0	0	0
		0	$-\frac{4i}{7}$	0	0	0	0	0	0	$\frac{17\sqrt{10}i}{525}$	0	0	0	0	0
		0	0	$-\frac{4i}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{105}$	0	0	0	0
		0	0	0	$\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{105}$	0	0	0
672	$\mathbb{G}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{6\sqrt{10}i}{25}$	0	0	0	0	0	0	0
		$\frac{\sqrt{105}i}{105}$	0	0	0	0	0	0	$-\frac{12\sqrt{70}i}{175}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{7}i}{21}$	0	0	0	0	0	0	$-\frac{18\sqrt{70}i}{175}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{15}i}{25}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{525}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{70}i}{75}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{210}i}{105}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
673	$\mathbb{G}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{12\sqrt{5}i}{25}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{70}i}{105}$	0	0	0	0	0	0	$\frac{12\sqrt{105}i}{175}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{75}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{525}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{70}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}i}{105}$	0	0	0	0	0	0
674	$\mathbb{G}_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
675	$\mathbb{G}_{2,2}^{(1,1;a)}$	0	0	0	$\frac{24\sqrt{7}i}{1225}$	0	0	0	0	0	$-\frac{3\sqrt{21}i}{2450}$	0	0	0
		0	0	0	0	$\frac{16\sqrt{42}i}{1225}$	0	0	0	0	0	$-\frac{3\sqrt{105}i}{2450}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{210}i}{1225}$	0	0	0	0	0	$-\frac{9\sqrt{35}i}{2450}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{350}$
		0	0	$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	$-\frac{4\sqrt{105}i}{3675}$	0	0	0	0
		0	0	0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	$-\frac{16\sqrt{21}i}{3675}$	0	0	0
		0	0	0	0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	$-\frac{4\sqrt{70}i}{1225}$	0	0
		0	0	0	0	0	$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	$-\frac{8\sqrt{210}i}{3675}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{525}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
676	$\mathbb{G}_{2,1}^{(1,1;a)}$	0	0	$-\frac{36\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{1225}$	0	0	0
		0	0	0	$-\frac{4\sqrt{21}i}{245}$	0	0	0	0	0	0	$\frac{9\sqrt{7}i}{1225}$	0	0
		0	0	0	0	$-\frac{4\sqrt{42}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0
		0	0	0	0	0	$\frac{12\sqrt{70}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$
		0	$-\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	$\frac{2\sqrt{7}i}{245}$	0	0	0	0	0
		0	0	$-\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{22\sqrt{21}i}{3675}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{42}i}{525}$	0	0
		0	0	0	0	$\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{2\sqrt{70}i}{1225}$	0
		0	0	0	0	0	$\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{3675}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{105}$

continued ...



Table 9

No.	multipole	matrix													
677	$\mathbb{G}_{2,0}^{(1,1;a)}$	0	$\frac{24\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{2450}$	0	0	0	0	0
		0	0	$\frac{12\sqrt{14}i}{1225}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{2450}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{14}i}{1225}$	0	0	0	0	0	0	$-\frac{9\sqrt{42}i}{2450}$	0	0	0
		0	0	0	0	$-\frac{24\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{210}i}{2450}$	0	0
		$\frac{3\sqrt{21}i}{245}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{245}$	0	0	0	0	0	0
		0	$-\frac{3\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{1225}$	0	0	0	0	0
		0	0	$-\frac{12\sqrt{21}i}{1225}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}i}{1225}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{21}i}{1225}$	0	0	0	0	0	0	$\frac{4\sqrt{7}i}{1225}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{21}i}{1225}$	0	0	0	0	0	0	$\frac{2\sqrt{210}i}{1225}$	0	0
		0	0	0	0	0	$\frac{3\sqrt{21}i}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{245}$	0
678	$\mathbb{G}_{2,-1}^{(1,1;a)}$	$-\frac{12\sqrt{70}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{42}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{105}i}{1225}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{21}i}{245}$	0	0	0	0	0	0	$\frac{9\sqrt{7}i}{1225}$	0	0	0	0
		0	0	0	$\frac{36\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{3\sqrt{21}i}{1225}$	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0	0	0	0
		$\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{3675}$	0	0	0	0	0	0
		0	$\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{1225}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{525}$	0	0	0	0
		0	0	0	$-\frac{18\sqrt{7}i}{1225}$	0	0	0	0	0	0	$-\frac{22\sqrt{21}i}{3675}$	0	0	0
		0	0	0	0	$-\frac{9\sqrt{70}i}{1225}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{245}$	0	0

continued ...

Table 9

No.	multipole	matrix												
679	$\mathbb{G}_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}i}{350}$	0	0	0	0	0	0
		$-\frac{8\sqrt{210}i}{1225}$	0	0	0	0	0	0	$-\frac{9\sqrt{35}i}{2450}$	0	0	0	0	0
		0	$-\frac{16\sqrt{42}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{105}i}{2450}$	0	0	0	0
		0	0	$-\frac{24\sqrt{7}i}{1225}$	0	0	0	0	0	0	$-\frac{3\sqrt{21}i}{2450}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{15}i}{525}$	0	0	0	0	0	0
		$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{3675}$	0	0	0	0	0
		0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{4\sqrt{70}i}{1225}$	0	0	0	0
		0	0	$\frac{27\sqrt{7}i}{1225}$	0	0	0	0	0	0	$\frac{16\sqrt{21}i}{3675}$	0	0	0
		0	0	0	$\frac{9\sqrt{35}i}{1225}$	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{3675}$	0	0
680	$\mathbb{G}_{4,4}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{2\sqrt{1155}i}{8085}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{55}i}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{8\sqrt{77}i}{17787}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{16\sqrt{1155}i}{88935}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{330}i}{12705}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
681	$\mathbb{G}_{4,3}^{(1,1;a)}$	0	0	0	0	$\frac{10\sqrt{77}i}{1617}$	0	0	0	0	0	$-\frac{\sqrt{770}i}{2695}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{1155}i}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{770}i}{8085}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{110}i}{1155}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{2310}i}{17787}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{770}i}{12705}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	$\frac{2\sqrt{1155}i}{88935}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{165}i}{4235}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
682	$\mathbb{G}_{4,2}^{(1,1;a)}$	0	0	0	$-\frac{20\sqrt{11}i}{1617}$	0	0	0	0	0	$\frac{\sqrt{33}i}{539}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	$\frac{\sqrt{165}i}{8085}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{330}i}{1617}$	0	0	0	0	0	$-\frac{\sqrt{55}i}{735}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{1155}i}{8085}$
		0	0	$-\frac{\sqrt{55}i}{539}$	0	0	0	0	0	$\frac{8\sqrt{165}i}{17787}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{11}i}{1617}$	0	0	0	0	0	$\frac{4\sqrt{33}i}{17787}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{11}i}{1617}$	0	0	0	0	0	$-\frac{34\sqrt{110}i}{88935}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{55}i}{539}$	0	0	0	0	0	$-\frac{6\sqrt{330}i}{29645}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{1155}i}{29645}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
683	$\mathbb{G}_{4,1}^{(1,1;a)}$	0	0	$\frac{10\sqrt{22}i}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{66}i}{1617}$	0	0	0	0	
		0	0	0	$-\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	$\frac{\sqrt{22}i}{1617}$	0	0	0	
		0	0	0	0	$\frac{10\sqrt{33}i}{1617}$	0	0	0	0	0	$\frac{4\sqrt{330}i}{8085}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	$-\frac{\sqrt{330}i}{2695}$	0	
		0	$\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	$-\frac{20\sqrt{22}i}{17787}$	0	0	0	0	0	
		0	0	$-\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	$\frac{4\sqrt{66}i}{17787}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{33}i}{2541}$	0	0	0	
		0	0	0	0	$\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	$\frac{2\sqrt{55}i}{88935}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	$-\frac{26\sqrt{330}i}{88935}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{462}i}{17787}$	
684	$\mathbb{G}_{4,0}^{(1,1;a)}$	0	$-\frac{4\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{22}i}{539}$	0	0	0	0	
		0	0	$\frac{4\sqrt{330}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{110}i}{1617}$	0	0	0	
		0	0	0	$-\frac{4\sqrt{330}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{110}i}{1617}$	0	0	
		0	0	0	0	$\frac{4\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{22}i}{539}$	0	
		$-\frac{\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{330}i}{17787}$	0	0	0	0	0	
		0	$\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$-\frac{16\sqrt{22}i}{17787}$	0	0	0	0	
		0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{165}i}{17787}$	0	0	0	
		0	0	0	$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{165}i}{17787}$	0	0	
		0	0	0	0	$\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$\frac{16\sqrt{22}i}{17787}$	0	
		0	0	0	0	0	$-\frac{\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{330}i}{17787}$	

continued ...

Table 9

No.	multipole	matrix													
685	$\mathbb{G}_{4,-1}^{(1,1;a)}$	$\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{330}i}{2695}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{33}i}{1617}$	0	0	0	0	0	0	$\frac{4\sqrt{330}i}{8085}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{22}i}{1617}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{22}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{66}i}{1617}$	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{462}i}{17787}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{26\sqrt{330}i}{88935}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{55}i}{88935}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{33}i}{2541}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{22}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{66}i}{17787}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{55}i}{1617}$	0	0	0	0	0	0	$\frac{20\sqrt{22}i}{17787}$	0	0
686	$\mathbb{G}_{4,-2}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{1155}i}{8085}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{330}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{55}i}{735}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{66}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{165}i}{8085}$	0	0	0	0	0
		0	0	$\frac{20\sqrt{11}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{33}i}{539}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{1155}i}{29645}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$\frac{6\sqrt{330}i}{29645}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{11}i}{1617}$	0	0	0	0	0	0	$\frac{34\sqrt{110}i}{88935}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{11}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{33}i}{17787}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{55}i}{539}$	0	0	0	0	0	0	$-\frac{8\sqrt{165}i}{17787}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
687	$\mathbb{G}_{4,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{110}i}{1155}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{1155}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{770}i}{8085}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{77}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{770}i}{2695}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{165}i}{4235}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{1155}i}{88935}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{770}i}{12705}$	0	0	0	0	0
		0	0	$\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	0	$\frac{2\sqrt{2310}i}{17787}$	0	0	0	0
688	$\mathbb{G}_{4,-4}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{55}i}{1155}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{770}i}{1617}$	0	0	0	0	0	0	$\frac{2\sqrt{1155}i}{8085}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{330}i}{12705}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	0	$-\frac{16\sqrt{1155}i}{88935}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{770}i}{1617}$	0	0	0	0	0	0	$-\frac{8\sqrt{77}i}{17787}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
689	$\mathbb{T}_{1,1}^{(a)}$	0	0	$-\frac{i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}i}{5}$	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0	0	0
		0	0	$\frac{4i}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0
		0	0	0	0	$\frac{4i}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{7}$	0
690	$\mathbb{T}_{1,0}^{(a)}$	0	$\frac{2i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2i}{5}$	0	0	0	0	0	0	0	0	0
		$-\frac{i}{7}$	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0	0
		0	$-\frac{3i}{35}$	0	0	0	0	0	$\frac{\sqrt{10}i}{7}$	0	0	0	0	0	0
		0	0	$-\frac{i}{35}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0	0	0
		0	0	0	$\frac{i}{35}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	$\frac{3i}{35}$	0	0	0	0	0	$\frac{\sqrt{10}i}{7}$	0	0	0
		0	0	0	0	0	$\frac{i}{7}$	0	0	0	0	0	$\frac{\sqrt{6}i}{7}$	0	0

continued ...

Table 9

No.	multipole	matrix													
691	$\mathbb{T}_{1,-1}^{(a)}$	$-\frac{\sqrt{10}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{i}{5}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{21}i}{7}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{7}$	0	0	0	0	0	0	0
		0	$-\frac{4i}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{7}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0
		0	0	0	$-\frac{4i}{35}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{i}{7}$	0	0	0
692	$\mathbb{T}_{3,3}^{(a)}$	0	0	0	0	$\frac{9\sqrt{5}i}{350}$	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{6}i}{70}$	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{5}i}{175}$	0	0	0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix													
693	$\mathbb{T}_{3,2}^{(a)}$	0	0	0	$-\frac{3\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{70}$	0	0	0	
		0	0	0	0	$-\frac{3\sqrt{10}i}{350}$	0	0	0	0	0	$-\frac{3i}{70}$	0	0	
		0	0	0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	$-\frac{\sqrt{3}i}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{70}$	
		0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{2i}{35}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{70}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
	$\mathbb{T}_{3,1}^{(a)}$	0	0	$\frac{9\sqrt{6}i}{350}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{2}i}{350}$	0	0	0	0	0	$\frac{\sqrt{6}i}{70}$	0	0	0	
		0	0	0	0	$-\frac{3i}{50}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{3\sqrt{15}i}{350}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{70}$	0	
		0	$-\frac{2\sqrt{15}i}{175}$	0	0	0	0	0	$\frac{\sqrt{6}i}{35}$	0	0	0	0	0	
		0	0	$\frac{\sqrt{6}i}{175}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	
		0	0	0	$\frac{4\sqrt{3}i}{175}$	0	0	0	0	0	$-\frac{i}{70}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{6}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{70}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{70}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$	

continued ...

Table 9

No.	multipole	matrix														
695	$\mathbb{T}_{3,0}^{(a)}$	0	$-\frac{9i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{70}$	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{6}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{70}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{6}i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	0	0
		0	0	0	0	$-\frac{9i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{70}$	0	0	0
		$\frac{i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{35}$	0	0	0	0	0	0	0
		0	$-\frac{i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{4i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{i}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{i}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{35}$	0
696	$\mathbb{T}_{3,-1}^{(a)}$	$\frac{3\sqrt{15}i}{350}$	0	0	0	0	0	0	$\frac{\sqrt{10}i}{70}$	0	0	0	0	0	0	0
		0	$-\frac{3i}{50}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}i}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{70}$	0	0	0	0	0
		0	0	0	$\frac{9\sqrt{6}i}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}i}{70}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{70}$	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{70}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{3}i}{175}$	0	0	0	0	0	0	$-\frac{i}{70}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}i}{175}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{35}$	0	0

continued ...

Table 9

No.	multipole	matrix													
697	$\mathbb{T}_{3,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{70}$	0	0	0	0	0	0	0
		$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{70}$	0	0	0	0	0	0
		0	$-\frac{3\sqrt{10}i}{350}$	0	0	0	0	0	0	$\frac{3i}{70}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{15}i}{175}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{7}i}{35}$	0	0	0	0	0	0	0
		$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{70}$	0	0	0	0	0	0
		0	$\frac{\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{70}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{2i}{35}$	0	0	0
698	$\mathbb{T}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{14}i}{70}$	0	0	0	0	0	0	0
		$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0
		0	$\frac{9\sqrt{5}i}{350}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{70}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}i}{70}$	0	0	0	0	0	0	0
		$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{3\sqrt{3}i}{70}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{5}i}{175}$	0	0	0	0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{70}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
699	$\mathbb{T}_{5,5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{231}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{10\sqrt{7}i}{539}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{231}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
700	$\mathbb{T}_{5,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{77}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{14}i}{539}$	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{539}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{14}i}{539}$	0	0	0	0	0	$\frac{2\sqrt{21}i}{1617}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{231}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
701	$\mathbb{T}_{5,3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{35}i}{1617}$	0	0	0	0	0	$\frac{\sqrt{14}i}{539}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	$\frac{2\sqrt{21}i}{539}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
702	$\mathbb{T}_{5,2}^{(a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{i}{231}$
		0	0	$-\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	$\frac{10\sqrt{7}i}{1617}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	$-\frac{4\sqrt{35}i}{1617}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	$-\frac{2\sqrt{42}i}{1617}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	$\frac{8\sqrt{14}i}{1617}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
703	$\mathbb{T}_{5,1}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{231}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{2i}{77}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2i}{231}$	0	
		0	$\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}i}{1617}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	$\frac{13\sqrt{5}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}i}{1617}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{1617}$	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{147}$	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	$\frac{23i}{1617}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}i}{1617}$	0
704	$\mathbb{T}_{5,0}^{(a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}i}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{231}$	0	0
		$-\frac{5i}{1617}$	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0
		0	$\frac{25i}{1617}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}i}{539}$	0	0	0	0	0
		0	0	$-\frac{50i}{1617}$	0	0	0	0	0	$\frac{10\sqrt{3}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{50i}{1617}$	0	0	0	0	0	$\frac{10\sqrt{3}i}{1617}$	0	0	0	0
		0	0	0	0	$-\frac{25i}{1617}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}i}{539}$	0	0
		0	0	0	0	0	$\frac{5i}{1617}$	0	0	0	0	0	0	$\frac{5\sqrt{6}i}{1617}$	0

continued ...

Table 9

No.	multipole	matrix														
705	$\mathbb{T}_{5,-1}^{(a)}$	0	0	0	0	0	0	0	$-\frac{2i}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2i}{77}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{231}$	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{35}i}{1617}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$\frac{23i}{1617}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{147}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}i}{1617}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{15}i}{1617}$	0	0	0	0	0	0	$\frac{13\sqrt{5}i}{1617}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{6}i}{1617}$	0	0	0	0	0	0	$-\frac{5\sqrt{15}i}{1617}$	0	0	0
706	$\mathbb{T}_{5,-2}^{(a)}$	0	0	0	0	0	0	$\frac{i}{231}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{7}i}{77}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{35}i}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2i}{231}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	0	$\frac{8\sqrt{14}i}{1617}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}i}{1617}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{105}i}{1617}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{1617}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{21}i}{1617}$	0	0	0	0	0	0	$\frac{10\sqrt{7}i}{1617}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
707	$\mathbb{T}_{5,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{2}i}{231}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{231}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{231}$	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{539}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{35}i}{1617}$	0	0	0	0	0	0	$\frac{\sqrt{14}i}{539}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{14}i}{1617}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0	0	0	0	0
708	$\mathbb{T}_{5,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2i}{77}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{21}i}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{231}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{14}i}{539}$	0	0	0	0	0	0	$\frac{2\sqrt{21}i}{1617}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{14}i}{539}$	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{539}$	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix													
709	$\mathbb{T}_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}i}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{30}i}{231}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{7}i}{539}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{1617}$	0	0	0	0	0	0
710	$\mathbb{T}_{3,3}^{(1,-1;a)}$	0	0	0	0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{210}i}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{10}i}{35}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	$-\frac{12\sqrt{5}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix														
711	$\mathbb{T}_{3,2}^{(1,-1;a)}$	0	0	0	$-\frac{8i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{7}$	0	0	0		
		0	0	0	0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{15}i}{35}$	0	0		
		0	0	0	0	0	$\frac{4\sqrt{30}i}{105}$	0	0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{35}$		
		0	0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0	0		
		0	0	0	$\frac{6i}{35}$	0	0	0	0	0	$\frac{8\sqrt{3}i}{21}$	0	0	0	0	
		0	0	0	0	$-\frac{6i}{35}$	0	0	0	0	0	$\frac{4\sqrt{10}i}{35}$	0	0		
		0	0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}i}{105}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{105}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
712	$\mathbb{T}_{3,1}^{(1,-1;a)}$	0	0	$\frac{12\sqrt{10}i}{175}$	0	0	0	0	0	$\frac{4\sqrt{30}i}{35}$	0	0	0	0		
		0	0	0	$-\frac{4\sqrt{30}i}{525}$	0	0	0	0	0	$\frac{6\sqrt{10}i}{35}$	0	0	0		
		0	0	0	0	$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	0	0	0	0		
		0	0	0	0	0	$\frac{4i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{7}$	0	
		0	$-\frac{12i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	
		0	0	$\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	$-\frac{8\sqrt{30}i}{105}$	0	0	0	0	0	
		0	0	0	$\frac{24\sqrt{5}i}{175}$	0	0	0	0	0	$\frac{4\sqrt{15}i}{105}$	0	0	0	0	
		0	0	0	0	$\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{4i}{7}$	0	0	
		0	0	0	0	0	$-\frac{12i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{105}$	

continued ...

Table 9

No.	multipole	matrix													
713	$\mathbb{T}_{3,0}^{(1,-1;a)}$	0	$-\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{7}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{7}$	0	0
		$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{15}i}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}i}{35}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0
714	$\mathbb{T}_{3,-1}^{(1,-1;a)}$	$\frac{4i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{7}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{15}i}{75}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{30}i}{525}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}i}{35}$	0	0	0	0
		0	0	0	$\frac{12\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{210}i}{105}$	0	0	0	0	0	0	0
		$\frac{12i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{21}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{4i}{7}$	0	0	0	0	0
		0	0	$-\frac{24\sqrt{5}i}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{105}$	0	0	0	0
		0	0	0	$-\frac{6\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{105}$	0	0	0
		0	0	0	0	$\frac{12i}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}i}{35}$	0	0

continued ...

Table 9

No.	multipole	matrix													
715	$\mathbb{T}_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{35}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{30}i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}i}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{15}i}{35}$	0	0	0	0	0
		0	0	$-\frac{8i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{105}$	0	0	0	0	0	0	0
		$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{105}$	0	0	0	0	0	0
		0	$\frac{6i}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}i}{35}$	0	0	0	0	0
		0	0	$-\frac{6i}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{21}$	0	0	0	0
		0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{15}i}{105}$	0	0	0
716	$\mathbb{T}_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{210}i}{35}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{35}i}{35}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{5}i}{35}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{10}i}{35}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
717	$\mathbb{T}_{5,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{75}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{8\sqrt{35}i}{525}$	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{6}i}{75}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
718	$\mathbb{T}_{5,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{375}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{125}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	$-\frac{16\sqrt{7}i}{175}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	$-\frac{16\sqrt{105}i}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{30}i}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
719	$\mathbb{T}_{5,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{70}i}{375}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}i}{375}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{10}i}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{7}i}{315}$	0	0	0	0	0	$-\frac{8\sqrt{70}i}{875}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	$-\frac{16\sqrt{105}i}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{15}i}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
720	$\mathbb{T}_{5,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{75}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}i}{125}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}i}{375}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{375}$
		0	0	$-\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	$-\frac{16\sqrt{35}i}{525}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	$\frac{32\sqrt{7}i}{525}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	$\frac{16\sqrt{210}i}{2625}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	$-\frac{64\sqrt{70}i}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{16\sqrt{5}i}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
721	$\mathbb{T}_{5,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{4i}{75}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{3}i}{75}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{125}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{375}$	0	0	
		0	$\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	
		0	0	$-\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$-\frac{104i}{525}$	0	0	0	0	
		0	0	0	$\frac{8\sqrt{6}i}{315}$	0	0	0	0	0	$\frac{8\sqrt{2}i}{525}$	0	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	$\frac{88\sqrt{30}i}{2625}$	0	0	0	
		0	0	0	0	0	$\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}i}{2625}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{7}i}{525}$	
722	$\mathbb{T}_{5,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{75}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{75}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{75}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{75}$	0	0	
		$-\frac{4\sqrt{5}i}{1575}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{525}$	0	0	0	0	0	0	
		0	$\frac{4\sqrt{5}i}{315}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{175}$	0	0	0	0	0	
		0	0	$-\frac{8\sqrt{5}i}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}i}{525}$	0	0	0	0	
		0	0	0	$\frac{8\sqrt{5}i}{315}$	0	0	0	0	0	0	$-\frac{16\sqrt{15}i}{525}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{5}i}{315}$	0	0	0	0	0	0	$\frac{24\sqrt{2}i}{175}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{5}i}{1575}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}i}{525}$	0	

continued ...

Table 9

No.	multipole	matrix													
723	$\mathbb{T}_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}i}{375}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}i}{125}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}i}{75}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4i}{75}$	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{7}i}{525}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$-\frac{184\sqrt{5}i}{2625}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$\frac{88\sqrt{30}i}{2625}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}i}{315}$	0	0	0	0	0	0	$\frac{8\sqrt{2}i}{525}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}i}{315}$	0	0	0	0	0	0	$-\frac{104i}{525}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{30}i}{1575}$	0	0	0	0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0
724	$\mathbb{T}_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{375}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{2\sqrt{105}i}{375}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{125}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{75}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{16\sqrt{5}i}{375}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	0	$-\frac{64\sqrt{70}i}{2625}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	0	$\frac{16\sqrt{210}i}{2625}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{21}i}{315}$	0	0	0	0	0	0	$\frac{32\sqrt{7}i}{525}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{105}i}{1575}$	0	0	0	0	0	0	$-\frac{16\sqrt{35}i}{525}$	0	0	0

continued ...



Table 9

No.	multipole	matrix														
725	$\mathbb{T}_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{10}i}{375}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{70}i}{375}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{70}i}{375}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{16\sqrt{15}i}{375}$	0	0	0	0	0	0	0	0
		$-\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}i}{875}$	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{7}i}{315}$	0	0	0	0	0	0	$-\frac{8\sqrt{70}i}{875}$	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{70}i}{1575}$	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0	0	0	0	0
726	$\mathbb{T}_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{5}i}{125}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{375}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{16\sqrt{30}i}{375}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	0	$-\frac{16\sqrt{105}i}{2625}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{70}i}{525}$	0	0	0	0	0	0	$-\frac{16\sqrt{7}i}{175}$	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
727	$\mathbb{T}_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{6}i}{75}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{6}i}{75}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{35}i}{525}$	0	0	0	0	0	0	$\frac{8\sqrt{210}i}{525}$	0	0	0	0	0	0
728	$\mathbb{T}_{1,1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}i}{10}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}i}{10}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{5}i}{5}$	0	0	0	0	0	0	0	0
		0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{2}i}{14}$	0	0	0	0	0	0
		0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0	0
		0	0	0	$\frac{18i}{35}$	0	0	0	0	0	$\frac{\sqrt{3}i}{7}$	0	0	0	0
		0	0	0	0	$\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0
		0	0	0	0	0	$\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$	0

continued ...

Table 9

No.	multipole	matrix														
729	$\mathbb{T}_{1,0}^{(1,0;a)}$	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{2}i}{5}$	0	0	0	0	0	0	0	0	0	0
		$-\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0	0	0
		0	$-\frac{9\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0
		0	0	0	0	$\frac{9\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{7}$	0	0	0
		0	0	0	0	0	$\frac{3\sqrt{2}i}{7}$	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0
730	$\mathbb{T}_{1,-1}^{(1,0;a)}$	$-\frac{\sqrt{5}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{10}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{10}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{14}$	0	0	0	0	0	0	0	0
		$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{14}$	0	0	0	0	0	0	0
		0	$-\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{7}$	0	0	0	0	0	0
		0	0	$-\frac{18i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{7}$	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{14}$	0	0	0	0
		0	0	0	0	$-\frac{6\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{14}$	0	0	0

continued ...

Table 9

No.	multipole	matrix												
731	$\mathbb{T}_{3,3}^{(1,0;a)}$	0	0	0	0	$\frac{\sqrt{15}i}{70}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{21}$	0	0
		0	0	0	0	0	$\frac{i}{14}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	$-\frac{\sqrt{2}i}{42}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{15}i}{105}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{42}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	$-\frac{i}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{42}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
732	$\mathbb{T}_{3,2}^{(1,0;a)}$	0	0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{15}i}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}i}{210}$	0	0	0	0	0	$\frac{\sqrt{3}i}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}i}{42}$	0	0	0	0	0	$\frac{i}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{21}$
		0	0	$\frac{2i}{7}$	0	0	0	0	0	$\frac{2\sqrt{3}i}{63}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{\sqrt{2}i}{42}$	0	0
		0	0	0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{126}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{63}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
733	$\mathbb{T}_{3,1}^{(1,0;a)}$	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	$-\frac{2\sqrt{6}i}{21}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{6}i}{210}$	0	0	0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{3}i}{30}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{5}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0
		0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{21}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{63}$	0	0	0	0
		0	0	0	$\frac{8i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{126}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{126}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{126}$
734	$\mathbb{T}_{3,0}^{(1,0;a)}$	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{21}$	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0
		$\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{21}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$-\frac{i}{21}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}i}{105}$	0	0	0	0	0	0	$-\frac{i}{21}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{3}i}{15}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{3}i}{21}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{21}$	0

continued ...

Table 9

No.	multipole	matrix													
735	$\mathbb{T}_{3,-1}^{(1,0;a)}$	$\frac{\sqrt{5}i}{70}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}i}{30}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}i}{210}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{7}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}i}{70}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}i}{126}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}i}{126}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{42}$	0	0	0	0	0
		0	0	$-\frac{8i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{126}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{63}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{21}$	0	0
736	$\mathbb{T}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{21}i}{21}$	0	0	0	0	0	0	0
		$\frac{\sqrt{6}i}{42}$	0	0	0	0	0	0	$-\frac{i}{7}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{210}$	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{21}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{63}$	0	0	0	0	0	0	0
		$\frac{2i}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{126}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{42}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}i}{35}$	0	0	0	0	0	0	$\frac{\sqrt{15}i}{63}$	0	0	0	0
		0	0	0	$-\frac{2i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{63}$	0	0	0

continued ...

Table 9

No.	multipole	matrix														
737	$\mathbb{T}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{21}$	0	0	0	0	0	0	0	0
		$\frac{i}{14}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{15}i}{70}$	0	0	0	0	0	0	$\frac{\sqrt{6}i}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7}i}{42}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$-\frac{i}{14}$	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{15}i}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{42}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{6}i}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{42}$	0	0	0	0	0
738	$\mathbb{T}_{5,5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4i}{11}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{2\sqrt{210}i}{77}$	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{i}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix												
739	$\mathbb{T}_{5,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}i}{55}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{55}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{105}i}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{231}$	0
		0	0	0	0	0	$\frac{2\sqrt{105}i}{77}$	0	0	0	0	0	$-\frac{\sqrt{70}i}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
740	$\mathbb{T}_{5,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{105}i}{231}$	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{42}i}{231}$	0	0	0	0	0	$-\frac{\sqrt{105}i}{1155}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}i}{231}$	0	0	0	0	0	$-\frac{\sqrt{70}i}{385}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}i}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix												
741	$\mathbb{T}_{5,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{55}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{55}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{165}$
		0	0	$-\frac{\sqrt{70}i}{77}$	0	0	0	0	0	$-\frac{\sqrt{210}i}{693}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{14}i}{77}$	0	0	0	0	0	$\frac{2\sqrt{42}i}{693}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{14}i}{77}$	0	0	0	0	0	$\frac{2\sqrt{35}i}{1155}$	0	0
		0	0	0	0	0	$\frac{\sqrt{70}i}{77}$	0	0	0	0	0	$-\frac{8\sqrt{105}i}{3465}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{495}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
742	$\mathbb{T}_{5,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{11}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{55}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{165}$	0
		0	$\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	$\frac{5\sqrt{2}i}{462}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	$-\frac{13\sqrt{6}i}{1386}$	0	0	0	0
		0	0	0	$\frac{20i}{77}$	0	0	0	0	0	$\frac{\sqrt{3}i}{693}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	$\frac{\sqrt{5}i}{105}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	$-\frac{23\sqrt{30}i}{6930}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{1386}$

continued ...

Table 9

No.	multipole	matrix														
743	$\mathbb{T}_{5,0}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}i}{33}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{33}$	0	0	0
		$-\frac{\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{231}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{30}i}{231}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{77}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{231}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{231}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{30}i}{231}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{77}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{231}$	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{231}$	0
744	$\mathbb{T}_{5,-1}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{165}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{55}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{11}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{33}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}i}{1386}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	0	$-\frac{23\sqrt{30}i}{6930}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	0	$\frac{\sqrt{5}i}{105}$	0	0	0	0	0	0
		0	0	$-\frac{20i}{77}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{693}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{2}i}{77}$	0	0	0	0	0	0	$-\frac{13\sqrt{6}i}{1386}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}i}{77}$	0	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{462}$	0	0

continued ...

Table 9

No.	multipole	matrix														
745	$\mathbb{T}_{5,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{70}i}{55}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{55}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}i}{495}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{70}i}{77}$	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{3465}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{14}i}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{1155}$	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{14}i}{77}$	0	0	0	0	0	0	$\frac{2\sqrt{42}i}{693}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{70}i}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{693}$	0	0	0	0
746	$\mathbb{T}_{5,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{165}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{10}i}{165}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{105}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{385}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{42}i}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{1155}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{105}i}{231}$	0	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
747	$\mathbb{T}_{5,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{30}i}{55}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{70}i}{55}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{5}i}{165}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{105}i}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{1155}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{105}i}{77}$	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{231}$	0	0	0	0	0	0
748	$\mathbb{T}_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4i}{11}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{i}{33}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{210}i}{77}$	0	0	0	0	0	0	$\frac{\sqrt{35}i}{231}$	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
749	$\mathbb{T}_{1,1}^{(1,1;a)}$	0	0	$\frac{2\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{30}i}{25}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{4i}{5}$	0	0	0	0	0	0	0	0	0
		0	$\frac{16i}{35}$	0	0	0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	0
		0	0	$\frac{32\sqrt{10}i}{175}$	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0	0	0	0
		0	0	0	$\frac{48\sqrt{5}i}{175}$	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0	0
		0	0	0	0	$\frac{32\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{2i}{7}$	0	0	0
		0	0	0	0	0	$\frac{16i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	0
750	$\mathbb{T}_{1,0}^{(1,1;a)}$	0	$-\frac{4\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	0
		$-\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	0
		0	$-\frac{24\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{2i}{7}$	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{30}i}{35}$	0	0	0	0
		0	0	0	0	$\frac{24\sqrt{10}i}{175}$	0	0	0	0	0	0	$\frac{2i}{7}$	0	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}i}{35}$	0	0	0	0	0	0	0	$\frac{2\sqrt{15}i}{35}$	0

continued ...

Table 9

No.	multipole	matrix													
751	$\mathbb{T}_{1,-1}^{(1,1;a)}$	$\frac{4i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}i}{25}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}i}{25}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{10}i}{25}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210}i}{35}$	0	0	0	0	0	0	0
		$-\frac{16i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{7}$	0	0	0	0	0	0
		0	$-\frac{32\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{2i}{7}$	0	0	0	0	0
		0	0	$-\frac{48\sqrt{5}i}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{35}$	0	0	0	0
		0	0	0	$-\frac{32\sqrt{10}i}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{35}$	0	0	0
		0	0	0	0	$-\frac{16i}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{35}$	0	0
752	$\mathbb{T}_{3,3}^{(1,1;a)}$	0	0	0	0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0	$\frac{4\sqrt{2}i}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}i}{105}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	$\frac{\sqrt{6}i}{105}$	0	0	0	
		0	0	0	0	$-\frac{16\sqrt{5}i}{315}$	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}i}{105}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
753	$\mathbb{T}_{3,2}^{(1,1;a)}$	0	0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	$-\frac{2i}{35}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	$-\frac{2\sqrt{3}i}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{105}$	
		0	0	$\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	$-\frac{4i}{105}$	0	0	0	0	
		0	0	0	$\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{6}i}{105}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	$\frac{\sqrt{2}i}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{105}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
754	$\mathbb{T}_{3,1}^{(1,1;a)}$	0	0	$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	$\frac{4\sqrt{2}i}{105}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	0	
		0	0	0	0	$\frac{i}{5}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$-\frac{\sqrt{15}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{105}$	0
		0	$-\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0	0	0	
		0	0	$\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	0	0	
		0	0	0	$\frac{16\sqrt{3}i}{315}$	0	0	0	0	0	$-\frac{i}{105}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	$-\frac{\sqrt{15}i}{105}$	0	0	
		0	0	0	0	0	$-\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}i}{105}$	

continued ...

Table 9

No.	multipole	matrix													
755	$\mathbb{T}_{3,0}^{(1,1;a)}$	0	$\frac{6i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}i}{105}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{105}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	0
		0	0	0	0	$\frac{6i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{105}$	0	0
		$\frac{4i}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0	0	0
		0	$-\frac{4i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{16i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0
		0	0	0	$\frac{16i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0
		0	0	0	0	$\frac{4i}{45}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{4i}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0
756	$\mathbb{T}_{3,-1}^{(1,1;a)}$	$-\frac{\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{10}i}{105}$	0	0	0	0	0	0
		0	$\frac{i}{5}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}i}{105}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{6}i}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{105}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}i}{105}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{10}i}{105}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{105}$	0	0	0	0	0
		0	0	$-\frac{16\sqrt{3}i}{315}$	0	0	0	0	0	0	$-\frac{i}{105}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{6}i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{2}i}{105}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{15}i}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{6}i}{105}$	0	0

continued ...



Table 9

No.	multipole	matrix														
757	$\mathbb{T}_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{105}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{105}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{10}i}{35}$	0	0	0	0	0	0	$\frac{2i}{35}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{15}i}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{105}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}i}{105}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{105}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{105}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}i}{315}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{105}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}i}{63}$	0	0	0	0	0	0	$-\frac{4i}{105}$	0	0	0	0
758	$\mathbb{T}_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{14}i}{105}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}i}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{105}$	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{5}i}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}i}{105}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}i}{105}$	0	0	0	0	0	0	0	0
		$\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	0	$\frac{\sqrt{3}i}{35}$	0	0	0	0	0	0	0
		0	$\frac{16\sqrt{5}i}{315}$	0	0	0	0	0	0	$\frac{\sqrt{2}i}{35}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{2}i}{63}$	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{105}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
759	$\mathbb{M}_{2,2}^{(a)}$	0	0	0	$\frac{16\sqrt{3}}{35}$	0	0	0	0	0	$\frac{4}{35}$	0	0	0	
		0	0	0	0	$\frac{32\sqrt{2}}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	
		0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{35}}{35}$	
		0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	$\frac{8\sqrt{5}}{35}$	0	0	0	0	
		0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	$\frac{32}{35}$	0	0	0	0
		0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{35}}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
760	$\mathbb{M}_{2,1}^{(a)}$	0	0	$-\frac{24\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{8}{35}$	0	0	0	0	
		0	0	0	$-\frac{8}{7}$	0	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	
		0	0	0	0	0	$\frac{8\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	
		0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	
		0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{44}{35}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{5}$	0	0	0	
		0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{7}}{7}$	

continued ...

Table 9

No.	multipole	matrix														
761	$\mathbb{M}_{2,0}^{(a)}$	0	$\frac{48}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{35}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0
		0	0	0	0	$-\frac{48}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{35}$	0	0	0
		$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	$\frac{4}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{10}}{35}$	0	0	0	0	0	0
		0	0	$\frac{16}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0
		0	0	0	$\frac{16}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{10}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0	0
762	$\mathbb{M}_{2,-1}^{(a)}$	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{2}}{35}$	0	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	0	0	0
		0	0	$\frac{8}{7}$	0	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0
		0	0	0	$\frac{24\sqrt{3}}{35}$	0	0	0	0	0	0	0	$-\frac{8}{35}$	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{7}}{7}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{2}}{5}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{3}}{35}$	0	0	0	0	0	0	0	$\frac{44}{35}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	0

continued ...

Table 9

No.	multipole	matrix													
763	$\mathbb{M}_{2,-2}^{(a)}$	0	0	0	0	0	0	$\frac{4\sqrt{35}}{35}$	0	0	0	0	0	0	0
		$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0
		0	$-\frac{32\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0
		0	0	$-\frac{16\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{4}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{35}}{35}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{35}$	0	0	0	0	0	0
		0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{35}$	0	0	0	0	0
		0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{32}{35}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{35}$	0	0	0
764	$\mathbb{M}_{4,4}^{(a)}$	0	0	0	0	0	$-\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{4\sqrt{21}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4}{5}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{8\sqrt{35}}{105}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{16\sqrt{21}}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{15}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
765	$\mathbb{M}_{4,3}^{(a)}$	0	0	0	0	$\frac{2\sqrt{35}}{21}$	0	0	0	0	0	$\frac{6\sqrt{14}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{21}}{21}$	0	0	0	0	0	$\frac{4\sqrt{14}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{14}}{15}$	0	0	
		0	0	0	0	0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{21}}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{5}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
766	$\mathbb{M}_{4,2}^{(a)}$	0	0	0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{30}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	$\frac{22}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{35}$	
		0	0	$\frac{4}{7}$	0	0	0	0	0	$-\frac{8\sqrt{3}}{21}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	$\frac{34\sqrt{2}}{105}$	0	0	
		0	0	0	0	0	$\frac{4}{7}$	0	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{35}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix														
767	$\mathbb{M}_{4,1}^{(a)}$	0	0	$\frac{2\sqrt{10}}{21}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0		
		0	0	0	$-\frac{2\sqrt{30}}{21}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0		
		0	0	0	0	$\frac{2\sqrt{15}}{21}$	0	0	0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0		
		0	0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	
		0	$-\frac{8}{21}$	0	0	0	0	0	$\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{10}}{21}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{15}$	0	0	0		
		0	0	0	0	$-\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{2}{105}$	0	0	
		0	0	0	0	0	$\frac{8}{21}$	0	0	0	0	0	0	$\frac{26\sqrt{6}}{105}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{105}$	
768	$\mathbb{M}_{4,0}^{(a)}$	0	$-\frac{4}{21}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	0	
		0	0	$\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	
		0	0	0	$-\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	
		0	0	0	0	$\frac{4}{21}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	
		$\frac{4}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{21}$	0	0	0	0	0	0	
		0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{16\sqrt{10}}{105}$	0	0	0	0	0	
		0	0	$\frac{8}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{21}$	0	0	0	0	
		0	0	0	$\frac{8}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{21}$	0	0	0	
		0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$-\frac{16\sqrt{10}}{105}$	0	0	
		0	0	0	0	0	$\frac{4}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{21}$	0	

continued ...

Table 9

No.	multipole	matrix														
769	$\mathbb{M}_{4,-1}^{(a)}$	$\frac{2}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{6}}{35}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{35}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{210}}{105}$	0	0	0	0	0	0	0	0
		$\frac{8}{21}$	0	0	0	0	0	0	$-\frac{26\sqrt{6}}{105}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{2}{105}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15}}{15}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{30}}{105}$	0	0	0	0
		0	0	0	0	$-\frac{8}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{10}}{21}$	0	0	0
770	$\mathbb{M}_{4,-2}^{(a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{35}$	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{22}{35}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{30}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{35}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{6\sqrt{15}}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{21}}{35}$	0	0	0	0	0	0	0	0
		$\frac{4}{7}$	0	0	0	0	0	0	$-\frac{6\sqrt{6}}{35}$	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{34\sqrt{2}}{105}$	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{5}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{105}$	0	0	0	0	0
		0	0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{21}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
771	$\mathbb{M}_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{2}}{5}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{21}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{14}}{35}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{35}}{21}$	0	0	0	0	0	0	$\frac{6\sqrt{14}}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{3}}{5}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{105}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{15}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{21}$	0	0	0	0
772	$\mathbb{M}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4}{5}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{35}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{6}}{15}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{16\sqrt{21}}{105}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{8\sqrt{35}}{105}$	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix												
773	$\mathbb{M}_{2,2}^{(1,-1;a)}$	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{35}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$
		0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	$\frac{\sqrt{30}}{35}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0
		0	0	0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	$\frac{6\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
774	$\mathbb{M}_{2,1}^{(1,-1;a)}$	0	0	$\frac{9\sqrt{2}}{70}$	0	0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{3\sqrt{5}}{35}$	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0
		0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{3\sqrt{2}}{14}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{11\sqrt{6}}{70}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{5}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{3\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{14}$

continued ...

Table 9

No.	multipole	matrix													
775	$\mathbb{M}_{2,0}^{(1,-1;a)}$	0	$-\frac{3\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0
		0	0	$-\frac{3}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0	0
		0	0	0	$\frac{3}{35}$	0	0	0	0	0	0	$-\frac{12\sqrt{3}}{35}$	0	0	0
		0	0	0	0	$\frac{3\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0
		$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{15}}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{35}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{3}{7}$	0
776	$\mathbb{M}_{2,-1}^{(1,-1;a)}$	$\frac{3\sqrt{5}}{35}$	0	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0	0
		0	$-\frac{\sqrt{3}}{35}$	0	0	0	0	0	0	0	$\frac{4\sqrt{30}}{35}$	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0
		0	0	0	$-\frac{9\sqrt{2}}{70}$	0	0	0	0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{14}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0
		0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{5}}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{5}$	0	0	0
		0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	0	$\frac{11\sqrt{6}}{70}$	0	0
		0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	0	$\frac{3\sqrt{2}}{14}$	0

continued ...

Table 9

No.	multipole	matrix													
777	$\mathbb{M}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{35}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0
		0	0	$\frac{3\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210}}{35}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{35}$	0	0	0	0	0	0
		0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{6\sqrt{5}}{35}$	0	0	0	0	0
		0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0
778	$\mathbb{M}_{4,4}^{(1,-1;a)}$	0	0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{21}$	0	
		0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
779	$\mathbb{M}_{4,3}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{5}}{42}$	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{3}}{42}$	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$\frac{5\sqrt{6}}{42}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{6}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	$-\frac{\sqrt{3}}{42}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{14}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
780	$\mathbb{M}_{4,2}^{(1,-1;a)}$	0	0	0	$\frac{\sqrt{35}}{147}$	0	0	0	0	0	$\frac{\sqrt{105}}{49}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{210}}{294}$	0	0	0	0	0	$\frac{\sqrt{21}}{147}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{42}}{294}$	0	0	0	0	0	$-\frac{11\sqrt{7}}{147}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	
		0	0	$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{10\sqrt{21}}{147}$	0	0	0	0	
		0	0	0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	$-\frac{\sqrt{105}}{147}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	$\frac{17\sqrt{14}}{294}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	$\frac{3\sqrt{42}}{98}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 9

No.	multipole	matrix													
781	$\mathbb{M}_{4,1}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{70}}{294}$	0	0	0	0	0	$-\frac{2\sqrt{210}}{147}$	0	0	0	0	
		0	0	0	$\frac{\sqrt{210}}{294}$	0	0	0	0	0	$\frac{\sqrt{70}}{147}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{105}}{294}$	0	0	0	0	0	$\frac{4\sqrt{42}}{147}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{7}}{294}$	0	0	0	0	0	$-\frac{\sqrt{42}}{49}$	0	
		0	$\frac{4\sqrt{7}}{147}$	0	0	0	0	0	$\frac{5\sqrt{70}}{147}$	0	0	0	0	0	
		0	0	$-\frac{2\sqrt{70}}{147}$	0	0	0	0	0	$-\frac{\sqrt{210}}{147}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{42}$	0	0	0	
		0	0	0	0	$\frac{2\sqrt{70}}{147}$	0	0	0	0	0	$-\frac{\sqrt{7}}{294}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	$\frac{13\sqrt{42}}{294}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}}{42}$	
782	$\mathbb{M}_{4,0}^{(1,-1;a)}$	0	$\frac{\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{49}$	0	0	0	0	
		0	0	$-\frac{\sqrt{42}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{14}}{147}$	0	0	0	
		0	0	0	$\frac{\sqrt{42}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{14}}{147}$	0	0	
		0	0	0	0	$-\frac{\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{49}$	0	
		$-\frac{2\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{147}$	0	0	0	0	0	
		0	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{147}$	0	0	0	0	
		0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{147}$	0	0	0	
		0	0	0	$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{147}$	0	0	
		0	0	0	0	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{147}$	0	
		0	0	0	0	0	$-\frac{2\sqrt{7}}{147}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{147}$	

continued ...

Table 9

No.	multipole	matrix														
783	$\mathbb{M}_{4,-1}^{(1,-1;a)}$	$-\frac{\sqrt{7}}{294}$	0	0	0	0	0	0	$-\frac{\sqrt{42}}{49}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{105}}{294}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{147}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{210}}{294}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{147}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{70}}{294}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{147}$	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{30}}{42}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{13\sqrt{42}}{294}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{70}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{294}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}}{42}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{70}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{147}$	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{7}}{147}$	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{147}$	0	0	0
784	$\mathbb{M}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{42}}{294}$	0	0	0	0	0	0	$-\frac{11\sqrt{7}}{147}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{210}}{294}$	0	0	0	0	0	0	$\frac{\sqrt{21}}{147}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{35}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{49}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{98}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	0	$-\frac{17\sqrt{14}}{294}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{35}}{147}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{147}$	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{147}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
785	$\mathbb{M}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{5}}{42}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{14}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{42}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{6}$	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{42}$	0	0	0	0	0
786	$\mathbb{M}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{21}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{21}$	0	0	0	0	0	0	0
		0	$-\frac{2\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{21}$	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix															
787	$M_{6,6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
788	$M_{6,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{7}}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{5}}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix														
789	$\mathbb{M}_{6,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{770}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
790	$\mathbb{M}_{6,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{231}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{77}}{121}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{462}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
791	$M_{6,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{1089}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{154}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{462}}{1089}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{33}}{1089}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
792	$M_{6,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{154}}{726}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2178}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{231}}{1089}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2310}}{2178}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}}{2178}$	0

continued ...

Table 9

No.	multipole	matrix														
793	$M_{6,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{165}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{22}}{363}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{22}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{165}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{11}}{363}$	0	0	0
794	$M_{6,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{385}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{25\sqrt{231}}{1089}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{462}}{2178}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{154}}{726}$	0	0	0	0

continued ...

Table 9

No.	multipole	matrix											
795	$M_{6,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{33}}{1089}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{462}}{1089}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{1089}$	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}}{1089}$	0	0
796	$M_{6,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{66}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{77}}{121}$	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{231}}{363}$	0	0	0

continued ...

Table 9

No.	multipole	matrix														
797	$\mathbb{M}_{6,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{770}}{363}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{462}}{363}$	0	0	0	0	0	0	0
798	$\mathbb{M}_{6,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
799	$\mathbb{M}_{6,-6}^{(1,-1;a)}$	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 0 0 0 0 0 0 0 0													
		0 0 0 0 0 0 0 $-\frac{10\sqrt{3}}{33}$ 0 0 0 0 0 0 0 0													
800	$\mathbb{M}_{2,2}^{(1,0;a)}$	0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{3}}{105}$	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0
		0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0	$\frac{6\sqrt{10}}{35}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{210}}{35}$	0
		0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0
		0	0	0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	$\frac{8\sqrt{6}}{105}$	0	0	0	0
		0	0	0	0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0
		0	0	0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{210}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
801	$\mathbb{M}_{2,1}^{(1,0;a)}$	0	0	$\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0
		0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{7}$	0	0	0	0	0
		0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{11\sqrt{6}}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{15}$	0	0	0
		0	0	0	0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0
		0	0	0	0	0	$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$
802	$\mathbb{M}_{2,0}^{(1,0;a)}$	0	$-\frac{4\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0	0	0	0
		0	0	$-\frac{4}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{3}}{35}$	0	0	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$\frac{12\sqrt{3}}{35}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{35}$	0	0
		$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{35}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{35}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{2}{7}$	0

continued ...

Table 9

No.	multipole	matrix													
803	$\mathbb{M}_{2,-1}^{(1,0;a)}$	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{35}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0
		0	0	0	$-\frac{6\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{35}$	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0
		$\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0	0
		0	$\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{35}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}}{15}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{11\sqrt{6}}{105}$	0	0	0
		0	0	0	0	$-\frac{12\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0
804	$\mathbb{M}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{35}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0
		0	$\frac{16\sqrt{3}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{35}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{210}}{105}$	0	0	0	0	0	0	0
		$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0	0
		0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0
		0	0	$\frac{18\sqrt{2}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{6}}{105}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0

continued ...



Table 9

No.	multipole	matrix												
805	$\mathbb{M}_{4,4}^{(1,0;a)}$	0	0	0	0	0	$\frac{2\sqrt{70}}{525}$	0	0	0	0	0	$-\frac{12\sqrt{105}}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{12\sqrt{5}}{125}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	$-\frac{4\sqrt{7}}{525}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	$-\frac{8\sqrt{105}}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{375}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
806	$\mathbb{M}_{4,3}^{(1,0;a)}$	0	0	0	0	$-\frac{\sqrt{7}}{105}$	0	0	0	0	0	$\frac{18\sqrt{70}}{875}$	0	0
		0	0	0	0	0	$\frac{\sqrt{105}}{525}$	0	0	0	0	0	$\frac{12\sqrt{70}}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{10}}{125}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{70}}{175}$	0	0	0	0	0	$\frac{\sqrt{210}}{525}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{375}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	$-\frac{\sqrt{105}}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{125}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
807	$\mathbb{M}_{4,2}^{(1,0;a)}$	0	0	0	$\frac{2}{105}$	0	0	0	0	0	$-\frac{18\sqrt{3}}{175}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{15}}{875}$	0	0
		0	0	0	0	0	$\frac{\sqrt{30}}{525}$	0	0	0	0	0	$\frac{66\sqrt{5}}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{6\sqrt{105}}{875}$
		0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{525}$	0	0	0	0
		0	0	0	$\frac{4}{35}$	0	0	0	0	0	$-\frac{2\sqrt{3}}{525}$	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	$\frac{17\sqrt{10}}{2625}$	0	0
		0	0	0	0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	$\frac{3\sqrt{30}}{875}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{875}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
808	$\mathbb{M}_{4,1}^{(1,0;a)}$	0	0	$-\frac{\sqrt{2}}{105}$	0	0	0	0	0	$\frac{12\sqrt{6}}{175}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{105}$	0	0	0	0	0	$-\frac{6\sqrt{2}}{175}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}}{105}$	0	0	0	0	0	$-\frac{24\sqrt{30}}{875}$	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{525}$	0	0	0	0	0	$\frac{18\sqrt{30}}{875}$	0
		0	$\frac{8\sqrt{5}}{175}$	0	0	0	0	0	$\frac{2\sqrt{2}}{105}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{525}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}}{75}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{2625}$	0	0
		0	0	0	0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	$\frac{13\sqrt{30}}{2625}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{525}$

continued ...

Table 9

No.	multipole	matrix													
809	$\mathbb{M}_{4,0}^{(1,0;a)}$	0	$\frac{2\sqrt{5}}{525}$	0	0	0	0	0	0	$-\frac{18\sqrt{2}}{175}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{6\sqrt{10}}{175}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{525}$	0	0	0	0	0	0	$-\frac{18\sqrt{2}}{175}$	0	0
		$-\frac{4\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{525}$	0	0	0	0	0	0
		0	$\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{8\sqrt{2}}{525}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{525}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{525}$	0	0	0
		0	0	0	0	$\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{2}}{525}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{525}$	0
810	$\mathbb{M}_{4,-1}^{(1,0;a)}$	$-\frac{\sqrt{5}}{525}$	0	0	0	0	0	0	$\frac{18\sqrt{30}}{875}$	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{24\sqrt{30}}{875}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{2}}{175}$	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{105}$	0	0	0	0	0	0	$\frac{12\sqrt{6}}{175}$	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{42}}{525}$	0	0	0	0	0	0	0
		$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{13\sqrt{30}}{2625}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{2625}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{75}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{2}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{525}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{105}$	0	0

continued ...

Table 9

No.	multipole	matrix														
811	$\mathbb{M}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{6\sqrt{105}}{875}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{30}}{525}$	0	0	0	0	0	0	$\frac{66\sqrt{5}}{875}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}}{105}$	0	0	0	0	0	0	$-\frac{6\sqrt{15}}{875}$	0	0	0	0	0	0
		0	0	$-\frac{2}{105}$	0	0	0	0	0	0	$-\frac{18\sqrt{3}}{175}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{105}}{875}$	0	0	0	0	0	0	0	0
		$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$-\frac{3\sqrt{30}}{875}$	0	0	0	0	0	0	0
		0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{17\sqrt{10}}{2625}$	0	0	0	0	0	0
		0	0	$\frac{4}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{525}$	0	0	0	0	0
		0	0	0	$-\frac{12\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{525}$	0	0	0	0
812	$\mathbb{M}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{6\sqrt{10}}{125}$	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{105}}{525}$	0	0	0	0	0	0	$\frac{12\sqrt{70}}{875}$	0	0	0	0	0	0	0
		0	$\frac{\sqrt{7}}{105}$	0	0	0	0	0	0	$\frac{18\sqrt{70}}{875}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{15}}{125}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{105}}{2625}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}}{375}$	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{525}$	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix														
813	$\mathbb{M}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{12\sqrt{5}}{125}$	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{70}}{525}$	0	0	0	0	0	$-\frac{12\sqrt{105}}{875}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{30}}{375}$	0	0	0	0	0	0	0	0
		$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	$\frac{8\sqrt{105}}{2625}$	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{70}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{525}$	0	0	0	0	0	0
814	$\mathbb{M}_{0,0}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix												
815	$\mathbb{M}_{2,2}^{(1,1;a)}$	0	0	0	$\frac{16\sqrt{7}}{245}$	0	0	0	0	0	$-\frac{\sqrt{21}}{245}$	0	0	0
		0	0	0	0	$\frac{32\sqrt{42}}{735}$	0	0	0	0	0	$-\frac{\sqrt{105}}{245}$	0	0
		0	0	0	0	0	$\frac{16\sqrt{210}}{735}$	0	0	0	0	0	$-\frac{3\sqrt{35}}{245}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$
		0	0	$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	$-\frac{8\sqrt{105}}{2205}$	0	0	0	0
		0	0	0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	$-\frac{32\sqrt{21}}{2205}$	0	0	0
		0	0	0	0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	$-\frac{8\sqrt{70}}{735}$	0	0
		0	0	0	0	0	$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	$-\frac{16\sqrt{210}}{2205}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{15}}{315}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
816	$\mathbb{M}_{2,1}^{(1,1;a)}$	0	0	$-\frac{24\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{245}$	0	0	0
		0	0	0	$-\frac{8\sqrt{21}}{147}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{245}$	0	0
		0	0	0	0	$-\frac{8\sqrt{42}}{735}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0
		0	0	0	0	0	$\frac{8\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$
		0	$-\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{147}$	0	0	0	0
		0	0	$-\frac{12\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{44\sqrt{21}}{2205}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{42}}{315}$	0	0
		0	0	0	0	$\frac{12\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{735}$	0
		0	0	0	0	0	$\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{2205}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{63}$

continued ...

Table 9

No.	multipole	matrix													
817	$\mathbb{M}_{2,0}^{(1,1;a)}$	0	$\frac{16\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{245}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{14}}{245}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{245}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{14}}{245}$	0	0	0	0	0	0	$-\frac{3\sqrt{42}}{245}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{245}$	0	0
		$\frac{2\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{14}}{147}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{735}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{21}}{245}$	0	0	0	0	0	0	$-\frac{8\sqrt{7}}{735}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{21}}{245}$	0	0	0	0	0	0	$\frac{8\sqrt{7}}{735}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{21}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{210}}{735}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{14}}{147}$	0
818	$\mathbb{M}_{2,-1}^{(1,1;a)}$	$-\frac{8\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{42}}{735}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{245}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{21}}{147}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{245}$	0	0	0	0
		0	0	0	$\frac{24\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{245}$	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{3}}{63}$	0	0	0	0	0	0	0
		$\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{2205}$	0	0	0	0	0	0
		0	$\frac{12\sqrt{7}}{245}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{735}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{42}}{315}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{7}}{245}$	0	0	0	0	0	0	$-\frac{44\sqrt{21}}{2205}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{70}}{245}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{147}$	0	0

continued ...

Table 9

No.	multipole	matrix												
819	$\mathbb{M}_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0
		$-\frac{16\sqrt{210}}{735}$	0	0	0	0	0	0	$-\frac{3\sqrt{35}}{245}$	0	0	0	0	0
		0	$-\frac{32\sqrt{42}}{735}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{245}$	0	0	0	0
		0	0	$-\frac{16\sqrt{7}}{245}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{245}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{8\sqrt{15}}{315}$	0	0	0	0	0	0
		$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	0	$\frac{16\sqrt{210}}{2205}$	0	0	0	0	0
		0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{8\sqrt{70}}{735}$	0	0	0	0
		0	0	$\frac{18\sqrt{7}}{245}$	0	0	0	0	0	0	$\frac{32\sqrt{21}}{2205}$	0	0	0
		0	0	0	$\frac{6\sqrt{35}}{245}$	0	0	0	0	0	0	$\frac{8\sqrt{105}}{2205}$	0	0
820	$\mathbb{M}_{4,4}^{(1,1;a)}$	0	0	0	0	0	$-\frac{4\sqrt{770}}{231}$	0	0	0	0	0	$\frac{2\sqrt{1155}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{55}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	$\frac{8\sqrt{77}}{2541}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	$\frac{16\sqrt{1155}}{12705}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{330}}{1815}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 9

No.	multipole	matrix												
821	$\mathbb{M}_{4,3}^{(1,1;a)}$	0	0	0	0	$\frac{10\sqrt{77}}{231}$	0	0	0	0	0	$-\frac{\sqrt{770}}{385}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{1155}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{770}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{110}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{770}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{2310}}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{770}}{1815}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	$\frac{2\sqrt{1155}}{12705}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{165}}{605}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
822	$\mathbb{M}_{4,2}^{(1,1;a)}$	0	0	0	$-\frac{20\sqrt{11}}{231}$	0	0	0	0	0	$\frac{\sqrt{33}}{77}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{66}}{231}$	0	0	0	0	0	$\frac{\sqrt{165}}{1155}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{330}}{231}$	0	0	0	0	0	$-\frac{\sqrt{55}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{1155}}{1155}$
		0	0	$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	$\frac{8\sqrt{165}}{2541}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	$\frac{4\sqrt{33}}{2541}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	$-\frac{34\sqrt{110}}{12705}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	$-\frac{6\sqrt{330}}{4235}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{1155}}{4235}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 9

No.	multipole	matrix													
823	$\mathbb{M}_{4,1}^{(1,1;a)}$	0	0	$\frac{10\sqrt{22}}{231}$	0	0	0	0	0	$-\frac{2\sqrt{66}}{231}$	0	0	0	0	
		0	0	0	$-\frac{10\sqrt{66}}{231}$	0	0	0	0	0	$\frac{\sqrt{22}}{231}$	0	0	0	
		0	0	0	0	$\frac{10\sqrt{33}}{231}$	0	0	0	0	0	$\frac{4\sqrt{330}}{1155}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{\sqrt{330}}{385}$	0	
		0	$\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{22}}{2541}$	0	0	0	0	0	
		0	0	$-\frac{5\sqrt{22}}{231}$	0	0	0	0	0	$\frac{4\sqrt{66}}{2541}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{33}}{363}$	0	0	0	
		0	0	0	0	$\frac{5\sqrt{22}}{231}$	0	0	0	0	0	$\frac{2\sqrt{55}}{12705}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{26\sqrt{330}}{12705}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{462}}{2541}$	
824	$\mathbb{M}_{4,0}^{(1,1;a)}$	0	$-\frac{4\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{22}}{77}$	0	0	0	0	
		0	0	$\frac{4\sqrt{330}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{110}}{231}$	0	0	0	
		0	0	0	$-\frac{4\sqrt{330}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{110}}{231}$	0	0	
		0	0	0	0	$\frac{4\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{22}}{77}$	0	
		$-\frac{\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{330}}{2541}$	0	0	0	0	0	
		0	$\frac{\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{16\sqrt{22}}{2541}$	0	0	0	0	
		0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{165}}{2541}$	0	0	0	
		0	0	0	$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{165}}{2541}$	0	0	
		0	0	0	0	$\frac{\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{16\sqrt{22}}{2541}$	0	
		0	0	0	0	0	$-\frac{\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{330}}{2541}$	

continued ...

Table 9

No.	multipole	matrix													
825	$\mathbb{M}_{4,-1}^{(1,1;a)}$	$\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{330}}{385}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{33}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{330}}{1155}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{66}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{22}}{231}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{66}}{231}$	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{462}}{2541}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{26\sqrt{330}}{12705}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{55}}{12705}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{33}}{363}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{66}}{2541}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{22}}{2541}$	0	0
826	$\mathbb{M}_{4,-2}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{1155}}{1155}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{330}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{55}}{105}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{66}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{165}}{1155}$	0	0	0	0	0
		0	0	$\frac{20\sqrt{11}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{33}}{77}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{1155}}{4235}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{6\sqrt{330}}{4235}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	0	$\frac{34\sqrt{110}}{12705}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{11}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{33}}{2541}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{8\sqrt{165}}{2541}$	0	0	0

continued ...

Table 9

No.	multipole	matrix													
827	$\mathbb{M}_{4,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{110}}{165}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{1155}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{770}}{1155}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{77}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{770}}{385}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{165}}{605}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{1155}}{12705}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{770}}{1815}$	0	0	0	0	0
		0	0	$\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{2310}}{2541}$	0	0	0	0
828	$\mathbb{M}_{4,-4}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{55}}{165}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{770}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{1155}}{1155}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{330}}{1815}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{16\sqrt{1155}}{12705}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{8\sqrt{77}}{2541}$	0	0	0	0	0

$$\begin{aligned} \text{bra:} &= |\tfrac{5}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{7}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{7}{2}; f\rangle \\ \text{ket:} &= |\tfrac{5}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{5}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{7}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, \tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{1}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{3}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{5}{2}; f\rangle, |\tfrac{7}{2}, -\tfrac{7}{2}; f\rangle \end{aligned}$$

Table 10: (f,f) block.

No.	multipole	matrix															
829	$\mathbb{Q}_{0,0}^{(a)}$	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0

*continued ...*

Table 10

No.	multipole	matrix												
830	$Q_{2,2}^{(a)}$	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{105}$	0	0	0	0
		0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{8}{105}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{10}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{35}}{105}$	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0
		0	0	0	0	$\frac{8}{105}$	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{5}}{105}$	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
831	$Q_{2,1}^{(a)}$	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{11}{105}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{15}$	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	$\frac{\sqrt{30}}{105}$	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	$-\frac{\sqrt{5}}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	0
		$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0	0	0	0
		0	0	$\frac{\sqrt{30}}{105}$	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{11}{105}$	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{3}}{21}$	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
832	$Q_{2,0}^{(a)}$	$-\frac{2}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0
		0	$\frac{2}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$\frac{8}{35}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{105}$	0	0	0	0
		0	0	0	$\frac{8}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{105}$	0	0	0
		0	0	0	0	$\frac{2}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0
		0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0
		0	0	0	0	0	0	$-\frac{1}{3}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{1}{21}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{3}}{105}$	0	0	0	0	0	0	$\frac{5}{21}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{3}}{105}$	0	0	0	0	0	0	$\frac{5}{21}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{1}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{1}{3}$

continued ...



Table 10

No.	multipole	matrix													
833	$\mathbb{Q}_{2,-1}^{(a)}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{105}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{15}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{3}}{35}$	0	0	0	0	0	0	$-\frac{11}{105}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{21}$	0	0	0	0	0	0
		0	$-\frac{11}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{21}$	0	0
		0	0	0	0	0	$\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0

*continued ...*

Table 10

No.	multipole	matrix													
834	$\mathbb{Q}_{2,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{35}}{105}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0
		0	0	$-\frac{6\sqrt{3}}{35}$	0	0	0	0	0	0	$\frac{8}{105}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{105}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{5}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0	0	0	0
		0	$-\frac{8}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{21}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{21}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{35}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0

continued ...

Table 10

No.	multipole	matrix												
835	$Q_{4,4}^{(a)}$	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	$\frac{4\sqrt{35}}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	$\frac{8\sqrt{21}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	$\frac{\sqrt{2}}{11}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{21}}{231}$	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
836	$\mathbb{Q}_{4,3}^{(a)}$	0	0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{33}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	$\frac{\sqrt{21}}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}}{11}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$\frac{\sqrt{3}}{11}$	0	0	0	0	0	$-\frac{2}{11}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{21}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{14}}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
837	$\mathbb{Q}_{4,2}^{(a)}$	0	0	$\frac{1}{7}$	0	0	0	0	0	$\frac{20\sqrt{3}}{231}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	$\frac{2\sqrt{15}}{231}$	0	0	0	
		0	0	0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	$-\frac{17\sqrt{2}}{231}$	0	0	
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	$-\frac{3\sqrt{6}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{77}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{2\sqrt{21}}{77}$	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0	
		0	0	$\frac{3\sqrt{6}}{77}$	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	0	0	0	
		0	0	0	$\frac{17\sqrt{2}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	0	
		0	0	0	0	$-\frac{2\sqrt{15}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	
		0	0	0	0	0	$-\frac{20\sqrt{3}}{231}$	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
838	$Q_{4,1}^{(a)}$	0	$-\frac{2}{21}$	0	0	0	0	0	0	$-\frac{10\sqrt{10}}{231}$	0	0	0	0	0
		0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{231}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{33}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$\frac{1}{231}$	0	0
		0	0	0	0	0	$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{13\sqrt{6}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{231}$
		$\frac{\sqrt{210}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{77}$	0	0	0	0	0	0
		0	$-\frac{13\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{77}$	0	0	0	0	0
		0	0	$\frac{1}{231}$	0	0	0	0	0	0	$\frac{6\sqrt{3}}{77}$	0	0	0	0
		0	0	0	$\frac{\sqrt{15}}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}}{77}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
839	$\mathbb{Q}_{4,0}^{(a)}$	$\frac{1}{21}$	0	0	0	0	0	0	$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0
		0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{231}$	0	0	0	0	0
		0	0	$\frac{2}{21}$	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{231}$	0	0	0	0
		0	0	0	$\frac{2}{21}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0
		0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{231}$	0	0
		0	0	0	0	0	$\frac{1}{21}$	0	0	0	0	0	0	$-\frac{10\sqrt{6}}{231}$	0
		0	0	0	0	0	0	$\frac{1}{11}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{13}{77}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{3}{77}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{9}{77}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{9}{77}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{3}{77}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{13}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{1}{11}$

*continued ...*

Table 10

No.	multipole	matrix													
840	$\mathbb{Q}_{4,-1}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{231}$	0	0	0	0	0	0	0
		$\frac{2}{21}$	0	0	0	0	0	0	$\frac{13\sqrt{6}}{231}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{1}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{33}$	0	0	0	0
		0	0	0	$\frac{\sqrt{10}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0	0	0
		0	0	0	0	$-\frac{2}{21}$	0	0	0	0	0	0	$\frac{10\sqrt{10}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{35}}{77}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{10}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{77}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{6\sqrt{3}}{77}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{1}{231}$	0	0	0	0	0	0	$\frac{6\sqrt{3}}{77}$	0	0	0
		0	0	0	0	$\frac{13\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{77}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{210}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{77}$	0

*continued ...*



Table 10

No.	multipole	matrix													
841	$\mathbb{Q}_{4,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}}{77}$	0	0	0	0	0	0	0
		$\frac{1}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{77}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$\frac{17\sqrt{2}}{231}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{231}$	0	0	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$-\frac{20\sqrt{3}}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	0	0	0
		0	0	$-\frac{17\sqrt{2}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{6}}{77}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{6}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{77}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{21}}{77}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0

continued ...

Table 10

No.	multipole	matrix													
842	$\mathbb{Q}_{4,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{3}}{11}$	0	0	0	0	0	0	0
		$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{231}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{33}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2}{11}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{77}$	0	0	0	0	0	0
		0	$\frac{\sqrt{14}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{21}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{11}$	0	0	0	0	0	0	$-\frac{2}{11}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
843	$\mathbb{Q}_{4,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	0
		$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{8\sqrt{21}}{231}$	0	0	0	0	0	0
		0	$\frac{\sqrt{14}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{11}$	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
844	$Q_{6,6}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{22}}{143}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{10\sqrt{22}}{143}$	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
845	$\mathbb{Q}_{6,5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{330}}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{330}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{33}}{429}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{462}}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
846	$\mathbb{Q}_{6,4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{143}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{105}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{30}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{30}}{429}$	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{105}}{429}$	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{7}}{143}$	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
847	$\mathbb{Q}_{6,3}^{(a)}$	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{14}}{143}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{143}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{143}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10}{143}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{10}{143}$	0	0	0	0	0	$\frac{20\sqrt{3}}{429}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{7}}{143}$	0	0	0	0	0	$-\frac{10\sqrt{21}}{429}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{42}}{143}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{14}}{143}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{20\sqrt{3}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
848	$\mathbb{Q}_{6,2}^{(a)}$	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{70}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{20\sqrt{21}}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{7}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{2}}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{10\sqrt{2}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{5}}{429}$	0	0	0	0	0
		0	0	$-\frac{20\sqrt{7}}{429}$	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0	0	0	0	0
		0	0	0	$\frac{20\sqrt{21}}{429}$	0	0	0	0	0	$-\frac{10\sqrt{7}}{429}$	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{70}}{429}$	0	0	0	0	0	$-\frac{10\sqrt{7}}{429}$	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{5}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix													
849	$\mathbb{Q}_{6,1}^{(a)}$	0	0	0	0	0	0	0	$\frac{5\sqrt{21}}{429}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{25\sqrt{7}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{14}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5}{429}$	
		$-\frac{5}{429}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{35}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{429}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{210}}{429}$	0	0	0	0	0	0	$\frac{5\sqrt{70}}{429}$	0	0	0	0
		0	0	0	$\frac{25\sqrt{14}}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{25\sqrt{7}}{429}$	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{429}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{21}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
850	$Q_{6,0}^{(a)}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{10}}{143}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{50\sqrt{3}}{429}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{50\sqrt{3}}{429}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0
		0	0	0	0	0	0	$-\frac{5}{429}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	$\frac{25}{429}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{10}}{143}$	0	0	0	0	0	0	$-\frac{15}{143}$	0	0	0	0	0
		0	0	$-\frac{50\sqrt{3}}{429}$	0	0	0	0	0	0	$\frac{25}{429}$	0	0	0	0
		0	0	0	$\frac{50\sqrt{3}}{429}$	0	0	0	0	0	0	$\frac{25}{429}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0	0	0	0	$-\frac{15}{143}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	$\frac{25}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5}{429}$

*continued ...*

Table 10

No.	multipole	matrix														
851	$\mathbb{Q}_{6,-1}^{(a)}$	0	0	0	0	0	0	$\frac{5}{429}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{35}}{429}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{210}}{429}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{14}}{429}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{7}}{429}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$-\frac{5\sqrt{6}}{429}$	0	0	0	0	0	0	0	
		$-\frac{5\sqrt{21}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0	0	0	0	0	0	0
		0	$\frac{25\sqrt{7}}{429}$	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{429}$	0	0	0	0	0	0
		0	0	$-\frac{25\sqrt{14}}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{210}}{429}$	0	0	0	0	0	0	$\frac{5\sqrt{70}}{429}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{35}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{429}$	0	0	0
		0	0	0	0	0	$\frac{5}{429}$	0	0	0	0	0	0	0	$\frac{5\sqrt{6}}{429}$	0

*continued ...*

Table 10

No.	multipole	matrix													
852	$\mathbb{Q}_{6,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{2}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{20\sqrt{7}}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{20\sqrt{21}}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{70}}{429}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{14}}{429}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{5}}{429}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{70}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{429}$	0	0	0	0	0
		0	0	$-\frac{20\sqrt{21}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{429}$	0	0	0	0
		0	0	0	$\frac{20\sqrt{7}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{2}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{5}}{429}$	0	0

continued ...

Table 10

No.	multipole	matrix													
853	$\mathbb{Q}_{6,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10}{143}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{7}}{143}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{42}}{143}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{14}}{143}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{20\sqrt{3}}{429}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{14}}{143}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{429}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{42}}{143}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{7}}{143}$	0	0	0	0	0	0	$-\frac{10\sqrt{21}}{429}$	0	0	0	0
		0	0	0	$\frac{10}{143}$	0	0	0	0	0	0	$\frac{20\sqrt{3}}{429}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
854	$\mathbb{Q}_{6,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{30}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{105}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{10\sqrt{7}}{143}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{7}}{143}$	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0	0	0	0	0	0
		0	$\frac{10\sqrt{105}}{429}$	0	0	0	0	0	$\frac{5\sqrt{42}}{429}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{30}}{429}$	0	0	0	0	0	$-\frac{5\sqrt{10}}{143}$	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
855	$\mathbb{Q}_{6,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{330}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{462}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{462}}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{330}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{33}}{429}$	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
856	$\mathbb{Q}_{6,-6}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{22}}{143}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0	0	0	0	0	0	0
$-\frac{10\sqrt{22}}{143}$	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{429}$	0	0	0	0	0	0	0	

*continued ...*



Table 10

No.	multipole	matrix														
857	$\mathbb{Q}_{2,2}^{(1,-1;a)}$	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{\sqrt{30}}{7}$	0	0	0	0		
		0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{4\sqrt{6}}{7}$	0	0	0		
		0	0	0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{6\sqrt{5}}{7}$	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{4\sqrt{15}}{7}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}}{7}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	$\frac{\sqrt{210}}{7}$	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	
		0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0	0	
		0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0	
		0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	
		0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...

Table 10

No.	multipole	matrix												
858	$\mathbb{Q}_{2,1}^{(1,-1;a)}$	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{15\sqrt{2}}{14}$	0	0	0	0
		0	0	$\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{11\sqrt{6}}{14}$	0	0	0
		0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{2}}{7}$	0	0	0	0	0	$\frac{3\sqrt{5}}{7}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{14}$
		$-\frac{5\sqrt{42}}{14}$	0	0	0	0	0	0	$-\frac{6\sqrt{7}}{7}$	0	0	0	0	0
		0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{7}$	0	0	0	0
		0	0	$\frac{3\sqrt{5}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0
		0	0	0	$\sqrt{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{11\sqrt{6}}{14}$	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0
		0	0	0	0	0	$\frac{15\sqrt{2}}{14}$	0	0	0	0	0	$\frac{8\sqrt{3}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{6\sqrt{7}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
859	$\mathbb{Q}_{2,0}^{(1,-1;a)}$	$-\frac{10\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{15}{7}$	0	0	0	0	0	0	0
		0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{15}}{7}$	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{15}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{10\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{15}{7}$	0	0
		0	0	0	0	0	0	$\sqrt{6}$	0	0	0	0	0	0	0	0
		$-\frac{15}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{7}$	0	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{7}$	0	0	0	0
		0	0	0	0	$\frac{3\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0
		0	0	0	0	0	$\frac{15}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{6}$	0

continued ...

Table 10

No.	multipole	matrix													
860	$\mathbb{Q}_{2,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{14}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{14}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\sqrt{3}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{11\sqrt{6}}{14}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{15\sqrt{2}}{14}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{6\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$-\frac{15\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{7}$	0	0	0	0	0	0
		0	$-\frac{11\sqrt{6}}{14}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0
		0	0	$-\sqrt{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{7}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{42}}{14}$	0	0	0	0	0	0	$-\frac{6\sqrt{7}}{7}$	0

*continued ...*

Table 10

No.	multipole	matrix													
861	$\mathbb{Q}_{2,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{210}}{7}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0	0
		0	0	$-\frac{6\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{7}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{30}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0	0
		0	0	$-\frac{6\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{7}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{5}}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{210}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0

continued ...

Table 10

No.	multipole	matrix													
862	$\mathbb{Q}_{4,4}^{(1,-1;a)}$	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0	
		0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$-\frac{\sqrt{42}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	0	0	0	
		0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	
		0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
0	0	0	0	0	0	0	0	0	0	0	0	0			

*continued ...*

Table 10

No.	multipole	matrix												
863	$\mathbb{Q}_{4,3}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{5\sqrt{6}}{14}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}}{2}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	$\frac{\sqrt{3}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{21}}{14}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{21}}{14}$	0	0	0	0	0	$\frac{4\sqrt{7}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	0	$\frac{8}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{2}}{2}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{6}}{14}$	0	0	0	0	0	$-\frac{8}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
864	$\mathbb{Q}_{4,2}^{(1,-1;a)}$	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	$\frac{10\sqrt{21}}{49}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	$\frac{\sqrt{105}}{49}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	$-\frac{17\sqrt{14}}{98}$	0	0
		0	0	0	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{9\sqrt{42}}{98}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0	0
		0	0	$\frac{9\sqrt{42}}{98}$	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	0	0
		0	0	0	$\frac{17\sqrt{14}}{98}$	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{21}}{49}$	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix												
865	$\mathbb{Q}_{4,1}^{(1,-1;a)}$	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{5\sqrt{70}}{49}$	0	0	0	0
		0	0	$\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{105}}{14}$	0	0
		0	0	0	0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{7}}{98}$	0
		0	0	0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{13\sqrt{42}}{98}$
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}}{14}$
		$\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0
		0	$-\frac{13\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{49}$	0	0	0	0
		0	0	$\frac{\sqrt{7}}{98}$	0	0	0	0	0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0
		0	0	0	$\frac{\sqrt{105}}{14}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{12\sqrt{21}}{49}$	0
		0	0	0	0	0	$-\frac{5\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{49}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
866	$\mathbb{Q}_{4,0}^{(1,-1;a)}$	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{49}$	0	0	0	0	0	0
		0	$-\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{49}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{5\sqrt{21}}{49}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0
		0	0	0	0	$-\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{49}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{49}$	0
		0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{42}}{49}$	0	0	0	0	0	0	$\frac{26\sqrt{7}}{49}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{6\sqrt{7}}{49}$	0	0
		0	0	0	0	0	$-\frac{5\sqrt{42}}{49}$	0	0	0	0	0	0	$\frac{26\sqrt{7}}{49}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$

*continued ...*

Table 10

No.	multipole	matrix													
867	$\mathbb{Q}_{4,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{13\sqrt{42}}{98}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{7}}{98}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}}{14}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{70}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{49}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{12\sqrt{21}}{49}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{105}}{14}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}}{98}$	0	0	0	0	0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0
		0	0	0	0	$\frac{13\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{49}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{7}$	0

continued ...

Table 10

No.	multipole	matrix													
868	$\mathbb{Q}_{4,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	0
		$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{9\sqrt{42}}{98}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	0	$\frac{17\sqrt{14}}{98}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{35}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{105}}{49}$	0	0	0	0
		0	0	0	$\frac{6\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{10\sqrt{21}}{49}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	0	0	0	0
		0	$\frac{\sqrt{105}}{49}$	0	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0	0	0
		0	0	$-\frac{17\sqrt{14}}{98}$	0	0	0	0	0	0	$\frac{8\sqrt{42}}{49}$	0	0	0	0
		0	0	0	$-\frac{9\sqrt{42}}{98}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{49}$	0	0	0
		0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0

continued ...

Table 10

No.	multipole	matrix													
869	$\mathbb{Q}_{4,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{21}}{14}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}}{2}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{5\sqrt{6}}{14}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$\frac{5\sqrt{6}}{14}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{2}}{2}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{8}{7}$	0	0	0	0
		0	0	0	$-\frac{3\sqrt{21}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{7}$	0	0	0

continued ...

Table 10

No.	multipole	matrix													
870	$\mathbb{Q}_{4,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{7}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0	0	0
		0	$\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{42}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{14}}{7}$	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
871	$\mathbb{Q}_{6,6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
872	$\mathbb{Q}_{6,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{7}}{33}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{5}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	$-\frac{10\sqrt{2}}{11}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix											
873	$\mathbb{Q}_{6,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{462}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{770}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{55}}{363}$	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$	0	0
		0	0	0	0	$-\frac{5\sqrt{770}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0
		0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
874	$\mathbb{Q}_{6,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{231}}{363}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{77}}{121}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{66}}{363}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{5\sqrt{66}}{363}$	0	0	0	0	0	$-\frac{20\sqrt{22}}{121}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0	$\frac{10\sqrt{154}}{121}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{77}}{121}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{231}}{363}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{22}}{121}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
875	$\mathbb{Q}_{6,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}}{1089}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{1089}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{363}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{462}}{1089}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{33}}{1089}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{462}}{1089}$	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{154}}{363}$	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{1155}}{1089}$	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{231}}{1089}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
876	$\mathbb{Q}_{6,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	$\frac{5\sqrt{154}}{726}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$-\frac{25\sqrt{462}}{2178}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{231}}{1089}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{385}}{363}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2310}}{2178}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{66}}{2178}$	
		$-\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	$-\frac{10\sqrt{11}}{121}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	$\frac{20\sqrt{231}}{363}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{385}}{363}$	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{363}$	0	0	0	0
		0	0	0	$\frac{25\sqrt{231}}{1089}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{25\sqrt{462}}{2178}$	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{363}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{154}}{726}$	0	0	0	0	0	0	$-\frac{20\sqrt{231}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{11}}{121}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
877	$\mathbb{Q}_{6,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{165}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{22}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{22}}{363}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{165}}{363}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{11}}{363}$	0
		0	0	0	0	0	0	$\frac{5\sqrt{66}}{363}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{165}}{363}$	0	0	0	0	0	0	$\frac{15\sqrt{66}}{121}$	0	0	0	0	0
		0	0	$-\frac{25\sqrt{22}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0	0	0	0
		0	0	0	$\frac{25\sqrt{22}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{165}}{363}$	0	0	0	0	0	0	$\frac{15\sqrt{66}}{121}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{11}}{363}$	0	0	0	0	0	0	$-\frac{25\sqrt{66}}{363}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{66}}{363}$

continued ...

Table 10

No.	multipole	matrix														
878	$\mathbb{Q}_{6,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	$-\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}}{363}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{231}}{1089}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2178}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{154}}{726}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	$\frac{10\sqrt{11}}{121}$	0	0	0	0	0	0	0	
		$-\frac{5\sqrt{154}}{726}$	0	0	0	0	0	0	$-\frac{20\sqrt{231}}{363}$	0	0	0	0	0	0	0
		0	$\frac{25\sqrt{462}}{2178}$	0	0	0	0	0	0	$\frac{10\sqrt{1155}}{363}$	0	0	0	0	0	0
		0	0	$-\frac{25\sqrt{231}}{1089}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{385}}{363}$	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{363}$	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{2310}}{2178}$	0	0	0	0	0	0	$\frac{20\sqrt{231}}{363}$	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{66}}{2178}$	0	0	0	0	0	0	$-\frac{10\sqrt{11}}{121}$	0	0

continued ...

Table 10

No.	multipole	matrix												
879	$\mathbb{Q}_{6,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{462}}{1089}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{154}}{363}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{1155}}{1089}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{1089}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0	0	0	0	0	0
		$-\frac{10\sqrt{231}}{1089}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0	0	0	0
		0	$\frac{10\sqrt{1155}}{1089}$	0	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0	0
		0	0	$-\frac{10\sqrt{154}}{363}$	0	0	0	0	0	0	$\frac{10\sqrt{462}}{363}$	0	0	0
		0	0	0	$\frac{10\sqrt{462}}{1089}$	0	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0
		0	0	0	0	$-\frac{10\sqrt{33}}{1089}$	0	0	0	0	0	0	$\frac{10\sqrt{330}}{363}$	0

continued ...

Table 10

No.	multipole	matrix													
880	$\mathbb{Q}_{6,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{66}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{462}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{77}}{121}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{231}}{363}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{20\sqrt{22}}{121}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{231}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{154}}{121}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{77}}{121}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{462}}{363}$	0	0	0	0	0	$\frac{10\sqrt{154}}{121}$	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{66}}{363}$	0	0	0	0	0	0	$-\frac{20\sqrt{22}}{121}$	0	0	0

*continued ...*



Table 10

No.	multipole	matrix													
881	$\mathbb{Q}_{6,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{770}}{363}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{5\sqrt{462}}{363}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{462}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{770}}{363}$	0	0	0	0	0	$-\frac{10\sqrt{77}}{121}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0	0	0	0	$\frac{10\sqrt{165}}{121}$	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
882	$\mathbb{Q}_{6,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{7}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{5}}{33}$	0	0	0	0	0	0	$-\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
883	$\mathbb{Q}_{6,-6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{2}}{11}$	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
884	$\mathbb{Q}_{0,0}^{(1,1;a)}$	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{4\sqrt{3}}{3}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{3}$

*continued ...*

Table 10

No.	multipole	matrix													
885	$\mathbb{Q}_{2,2}^{(1,1;a)}$	0	0	$\frac{9\sqrt{35}}{49}$	0	0	0	0	0	$-\frac{4\sqrt{105}}{147}$	0	0	0	0	
		0	0	0	$\frac{27\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{16\sqrt{21}}{147}$	0	0	0	
		0	0	0	0	$\frac{27\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{4\sqrt{70}}{49}$	0	0	
		0	0	0	0	0	$\frac{9\sqrt{35}}{49}$	0	0	0	0	0	$-\frac{8\sqrt{210}}{147}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{210}}{147}$	0	0	0	0	0	$-\frac{3\sqrt{70}}{49}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{70}}{49}$	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0
		0	0	0	0	$\frac{16\sqrt{21}}{147}$	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0
		0	0	0	0	0	$\frac{4\sqrt{105}}{147}$	0	0	0	0	0	$-\frac{3\sqrt{70}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
886	$\mathbb{Q}_{2,1}^{(1,1;a)}$	0	$-\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{10\sqrt{7}}{49}$	0	0	0	0	0
		0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{22\sqrt{21}}{147}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	0
		0	0	0	0	$\frac{18\sqrt{7}}{49}$	0	0	0	0	0	$\frac{2\sqrt{70}}{49}$	0	0	0
		0	0	0	0	0	$\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{105}}{147}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{21}$	0
		$-\frac{10\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{105}}{147}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{49}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{70}}{49}$	0	0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{22\sqrt{21}}{147}$	0	0	0	0	0	$-\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	0	$\frac{10\sqrt{7}}{49}$	0	0	0	0	0	$-\frac{4\sqrt{42}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
887	$\mathbb{Q}_{2,0}^{(1,1;a)}$	$\frac{15\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{10\sqrt{14}}{49}$	0	0	0	0	0	0
		0	$-\frac{3\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0	0
		0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0
		0	0	0	0	$-\frac{3\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{49}$	0	0
		0	0	0	0	0	$\frac{15\sqrt{21}}{49}$	0	0	0	0	0	0	$\frac{10\sqrt{14}}{49}$	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{14}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{3\sqrt{21}}{49}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{5\sqrt{21}}{49}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{210}}{49}$	0	0	0	0	0	0	$\frac{3\sqrt{21}}{49}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{14}}{49}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{49}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$

*continued ...*

Table 10

No.	multipole	matrix													
888	$\mathbb{Q}_{2,-1}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{21}$	0	0	0	0	0	0	0
		$\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{2\sqrt{105}}{147}$	0	0	0	0	0	0
		0	$\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{42}}{21}$	0	0	0	0
		0	0	0	$-\frac{18\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{22\sqrt{21}}{147}$	0	0	0
		0	0	0	0	$-\frac{9\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{10\sqrt{7}}{49}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{7}}{49}$	0	0	0	0	0	0	$-\frac{4\sqrt{42}}{49}$	0	0	0	0	0	0
		0	$-\frac{22\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{49}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{42}}{21}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{70}}{49}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{49}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{105}}{147}$	0	0	0	0	0	0	$\frac{4\sqrt{42}}{49}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0

continued ...



Table 10

No.	multipole	matrix													
889	$\mathbb{Q}_{2,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{15}}{21}$	0	0	0	0	0	0	0
		$\frac{9\sqrt{35}}{49}$	0	0	0	0	0	0	$\frac{8\sqrt{210}}{147}$	0	0	0	0	0	0
		0	$\frac{27\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{49}$	0	0	0	0	0
		0	0	$\frac{27\sqrt{7}}{49}$	0	0	0	0	0	0	$\frac{16\sqrt{21}}{147}$	0	0	0	0
		0	0	0	$\frac{9\sqrt{35}}{49}$	0	0	0	0	0	0	$\frac{4\sqrt{105}}{147}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{105}}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{49}$	0	0	0	0	0	0
		0	$-\frac{16\sqrt{21}}{147}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{70}}{49}$	0	0	0	0	0	0	$-\frac{2\sqrt{210}}{49}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{210}}{147}$	0	0	0	0	0	0	$-\frac{3\sqrt{70}}{49}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}}{21}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0

*continued ...*

Table 10

No.	multipole	matrix												
890	$\mathbb{Q}_{4,4}^{(1,1;a)}$	0	0	0	0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{80\sqrt{77}}{2541}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{32\sqrt{1155}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{330}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{8\sqrt{330}}{363}$	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$	0	0	0
		0	0	0	0	$-\frac{32\sqrt{1155}}{2541}$	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0
		0	0	0	0	0	$-\frac{80\sqrt{77}}{2541}$	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
891	$\mathbb{Q}_{4,3}^{(1,1;a)}$	0	0	0	$\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{2310}}{2541}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{770}}{363}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{4\sqrt{1155}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{165}}{121}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{165}}{121}$	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{1155}}{2541}$	0	0	0	0	0	$-\frac{20\sqrt{385}}{2541}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{770}}{363}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{20\sqrt{2310}}{2541}$	0	0	0	0	0	$\frac{20\sqrt{385}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
892	$\mathbb{Q}_{4,2}^{(1,1;a)}$	0	0	$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	$\frac{80\sqrt{165}}{2541}$	0	0	0	0	
		0	0	0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	$\frac{40\sqrt{33}}{2541}$	0	0	0	
		0	0	0	0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	$-\frac{68\sqrt{110}}{2541}$	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	$-\frac{12\sqrt{330}}{847}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{8\sqrt{1155}}{847}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{8\sqrt{1155}}{847}$	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0	0	
		0	0	$\frac{12\sqrt{330}}{847}$	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0	0	0	
		0	0	0	$\frac{68\sqrt{110}}{2541}$	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0	
		0	0	0	0	$-\frac{40\sqrt{33}}{2541}$	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	
		0	0	0	0	0	$-\frac{80\sqrt{165}}{2541}$	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix												
893	$\mathbb{Q}_{4,1}^{(1,1;a)}$	0	$\frac{20\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{200\sqrt{22}}{2541}$	0	0	0	0	0
		0	0	$-\frac{50\sqrt{22}}{231}$	0	0	0	0	0	$\frac{40\sqrt{66}}{2541}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{33}}{363}$	0	0	0
		0	0	0	0	$\frac{50\sqrt{22}}{231}$	0	0	0	0	0	$\frac{4\sqrt{55}}{2541}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	$-\frac{52\sqrt{330}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{462}}{2541}$
		$\frac{20\sqrt{462}}{2541}$	0	0	0	0	0	$-\frac{50\sqrt{77}}{2541}$	0	0	0	0	0	0
		0	$-\frac{52\sqrt{330}}{2541}$	0	0	0	0	0	$\frac{50\sqrt{33}}{2541}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{55}}{2541}$	0	0	0	0	0	$\frac{10\sqrt{165}}{847}$	0	0	0	0
		0	0	0	$\frac{20\sqrt{33}}{363}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{40\sqrt{66}}{2541}$	0	0	0	0	0	$-\frac{10\sqrt{165}}{847}$	0	0
		0	0	0	0	0	$-\frac{200\sqrt{22}}{2541}$	0	0	0	0	0	$-\frac{50\sqrt{33}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{50\sqrt{77}}{2541}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
894	$\mathbb{Q}_{4,0}^{(1,1;a)}$	$-\frac{10\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{330}}{2541}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{160\sqrt{22}}{2541}$	0	0	0	0	0
		0	0	$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{165}}{2541}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{165}}{2541}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{160\sqrt{22}}{2541}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{55}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{330}}{2541}$	0
		0	0	0	0	0	0	$\frac{5\sqrt{55}}{363}$	0	0	0	0	0	0	0
		$\frac{40\sqrt{330}}{2541}$	0	0	0	0	0	0	$-\frac{65\sqrt{55}}{2541}$	0	0	0	0	0	0
		0	$-\frac{160\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{5\sqrt{55}}{847}$	0	0	0	0	0
		0	0	$-\frac{40\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{15\sqrt{55}}{847}$	0	0	0	0
		0	0	0	$\frac{40\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{15\sqrt{55}}{847}$	0	0	0
		0	0	0	0	$\frac{160\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{5\sqrt{55}}{847}$	0	0
		0	0	0	0	0	$-\frac{40\sqrt{330}}{2541}$	0	0	0	0	0	0	$-\frac{65\sqrt{55}}{2541}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{55}}{363}$

continued ...

Table 10

No.	multipole	matrix													
895	$\mathbb{Q}_{4,-1}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{20\sqrt{462}}{2541}$	0	0	0	0	0	0	0
		$-\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{52\sqrt{330}}{2541}$	0	0	0	0	0	0
		0	$\frac{50\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{55}}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{20\sqrt{33}}{363}$	0	0	0	0
		0	0	0	$-\frac{50\sqrt{22}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{66}}{2541}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{55}}{231}$	0	0	0	0	0	0	$\frac{200\sqrt{22}}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{50\sqrt{77}}{2541}$	0	0	0	0	0	0	0
		$\frac{200\sqrt{22}}{2541}$	0	0	0	0	0	0	$-\frac{50\sqrt{33}}{2541}$	0	0	0	0	0	0
		0	$-\frac{40\sqrt{66}}{2541}$	0	0	0	0	0	0	$-\frac{10\sqrt{165}}{847}$	0	0	0	0	0
		0	0	$-\frac{20\sqrt{33}}{363}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{55}}{2541}$	0	0	0	0	0	0	$\frac{10\sqrt{165}}{847}$	0	0	0
		0	0	0	0	$\frac{52\sqrt{330}}{2541}$	0	0	0	0	0	0	$\frac{50\sqrt{33}}{2541}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{462}}{2541}$	0	0	0	0	0	0	$-\frac{50\sqrt{77}}{2541}$	0

*continued ...*

Table 10

No.	multipole	matrix												
896	$\mathbb{Q}_{4,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{1155}}{847}$	0	0	0	0	0	0
		$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$\frac{12\sqrt{330}}{847}$	0	0	0	0	0
		0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	0	$\frac{68\sqrt{110}}{2541}$	0	0	0	0
		0	0	$\frac{50\sqrt{11}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{33}}{2541}$	0	0	0
		0	0	0	$-\frac{10\sqrt{55}}{77}$	0	0	0	0	0	0	$-\frac{80\sqrt{165}}{2541}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0	0	0
		$\frac{80\sqrt{165}}{2541}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0	0	0	0
		0	$\frac{40\sqrt{33}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0	0
		0	0	$-\frac{68\sqrt{110}}{2541}$	0	0	0	0	0	0	$-\frac{20\sqrt{330}}{2541}$	0	0	0
		0	0	0	$-\frac{12\sqrt{330}}{847}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{2541}$	0	0
		0	0	0	0	$\frac{8\sqrt{1155}}{847}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0

continued ...



Table 10

No.	multipole	matrix													
897	$\mathbb{Q}_{4,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{165}}{121}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{1155}}{2541}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{4\sqrt{770}}{363}$	0	0	0	0	0	0
		0	0	$\frac{10\sqrt{770}}{231}$	0	0	0	0	0	$\frac{20\sqrt{2310}}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{55}}{363}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{2310}}{2541}$	0	0	0	0	0	$\frac{20\sqrt{385}}{2541}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{770}}{363}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{1155}}{2541}$	0	0	0	0	0	$-\frac{20\sqrt{385}}{2541}$	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{165}}{121}$	0	0	0	0	0	0	$-\frac{10\sqrt{55}}{363}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
898	$\mathbb{Q}_{4,-4}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{330}}{363}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{32\sqrt{1155}}{2541}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{770}}{231}$	0	0	0	0	0	0	$-\frac{80\sqrt{77}}{2541}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$	0	0	0	0	0	0	0
		$\frac{80\sqrt{77}}{2541}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0	0	0
		0	$\frac{32\sqrt{1155}}{2541}$	0	0	0	0	0	0	$\frac{25\sqrt{462}}{2541}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{330}}{363}$	0	0	0	0	0	0	$\frac{5\sqrt{110}}{363}$	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
899	$\mathbb{G}_{1,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\sqrt{3}i$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\sqrt{5}i$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{2}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{2}$
		$\frac{\sqrt{42}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{30}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\sqrt{3}i$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
900	$\mathbb{G}_{1,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\sqrt{3}i$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\sqrt{5}i$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\sqrt{6}i$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\sqrt{6}i$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\sqrt{5}i$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\sqrt{3}i$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\sqrt{3}i$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\sqrt{6}i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\sqrt{6}i$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\sqrt{3}i$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
901	$\mathbb{G}_{1,-1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{42}i}{2}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{2}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\sqrt{5}i$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\sqrt{3}i$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6}i}{2}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\sqrt{3}i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\sqrt{5}i$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30}i}{2}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{42}i}{2}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
902	$\mathbb{G}_{3,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{3i}{2}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}i}{2}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{7}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3i}{2}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
903	$\mathbb{G}_{3,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{6}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}i}{3}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{21}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{15}i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
904	$\mathbb{G}_{3,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3}i}{6}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{2}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{6}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{6}$
		$-\frac{\sqrt{42}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{30}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{3}i}{6}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix														
905	$\mathbb{G}_{3,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$\sqrt{2}i$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-i$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-i$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\sqrt{2}i$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\sqrt{2}i$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$i$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$i$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\sqrt{2}i$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
906	$\mathbb{G}_{3,-1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{42i}}{6}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{\sqrt{30i}}{6}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{2}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3i}}{6}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6i}}{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\sqrt{2}i$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\sqrt{2}i$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6i}}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{3i}}{6}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{5i}}{2}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30i}}{6}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{42i}}{6}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
907	$\mathbb{G}_{3,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}i}{3}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{2}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{3}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{3}i}{3}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{3}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{15}i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}i}{6}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{21}i}{3}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
908	$\mathbb{G}_{3,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7}i}{2}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{3i}{2}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}i}{2}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{3i}{2}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{7}i}{2}$	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
909	$\mathbb{G}_{5,5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{35i}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
910	$\mathbb{G}_{5,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{14\sqrt{5}i}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{14\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{70}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{42}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
911	$\mathbb{G}_{5,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{11}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{10}i}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{7\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{70}i}{11}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{105}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
912	$\mathbb{G}_{5,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210i}}{99}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{42i}}{99}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35i}}{33}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{105i}}{99}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{30i}}{99}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{7\sqrt{30i}}{99}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{8\sqrt{105i}}{99}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{2\sqrt{35i}}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{42i}}{99}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{210i}}{99}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix													
913	$\mathbb{G}_{5,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{25\sqrt{2}i}{66}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{3}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{23\sqrt{30}i}{198}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{198}$
		$\frac{5\sqrt{42}i}{198}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{23\sqrt{30}i}{198}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{3}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{25\sqrt{2}i}{66}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
914	$\mathbb{G}_{5,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{5\sqrt{5}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{11}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{11}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{5}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{3}i}{11}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{3}i}{11}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
915	$\mathbb{G}_{5,-1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{198}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{23\sqrt{30}i}{198}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{3}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{65\sqrt{6}i}{198}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{2}i}{66}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{25\sqrt{2}i}{66}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{65\sqrt{6}i}{198}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{5\sqrt{3}i}{99}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{5}i}{3}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{23\sqrt{30}i}{198}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{42}i}{198}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
916	$\mathbb{G}_{5,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{7\sqrt{30}i}{99}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{8\sqrt{105}i}{99}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{42}i}{99}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}i}{99}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{210}i}{99}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{10\sqrt{42}i}{99}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{8\sqrt{105}i}{99}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{7\sqrt{30}i}{99}$	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
917	$\mathbb{G}_{5,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{7\sqrt{10}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{70}i}{11}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{105}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{70}i}{11}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{7\sqrt{10}i}{33}$	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
918	$\mathbb{G}_{5,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{14\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{70}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{42}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{70}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{14\sqrt{5}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
919	$\mathbb{G}_{5,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{35}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
920	$\mathbb{T}_{2,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{45}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{6}i}{45}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{5}i}{15}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}i}{45}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}i}{45}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{\sqrt{210}i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{6}i}{45}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{30}i}{45}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix														
921	$\mathbb{T}_{2,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{11\sqrt{6}i}{90}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{3}i}{45}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{15}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{90}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}i}{18}$	
		$-\frac{\sqrt{42}i}{18}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}i}{90}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{7\sqrt{3}i}{45}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{11\sqrt{6}i}{90}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
922	$\mathbb{T}_{2,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{i}{3}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{15}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{15}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{2}i}{15}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{15}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{i}{3}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{i}{3}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{15}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}i}{15}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{2}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{15}i}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{i}{3}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
923	$\mathbb{T}_{2,-1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{18}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{90}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5}i}{15}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{3}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{11\sqrt{6}i}{90}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{2}i}{6}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{2}i}{6}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{11\sqrt{6}i}{90}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{7\sqrt{3}i}{45}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{30}i}{90}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{\sqrt{42}i}{18}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
924	$\mathbb{T}_{2,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{210}i}{45}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{4\sqrt{15}i}{45}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{6}i}{45}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{45}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{\sqrt{30}i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}i}{45}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{2\sqrt{5}i}{15}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}i}{45}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{210}i}{45}$	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
925	$\mathbb{T}_{4,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{7}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{30}i}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
926	$\mathbb{T}_{4,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210i}}{66}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{70i}}{330}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105i}}{330}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{15i}}{110}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{7\sqrt{15i}}{110}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{105i}}{330}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{7\sqrt{70i}}{330}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{210i}}{66}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
927	$\mathbb{T}_{4,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{3}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{17\sqrt{10}i}{330}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{3\sqrt{30}i}{110}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{105}i}{55}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{105}i}{55}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{3\sqrt{30}i}{110}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{17\sqrt{10}i}{330}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{\sqrt{3}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
928	$\mathbb{T}_{4,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{6}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{7\sqrt{3}i}{66}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}i}{330}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{13\sqrt{30}i}{330}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{42}i}{66}$
		$\frac{\sqrt{42}i}{66}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{13\sqrt{30}i}{330}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{5}i}{330}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{7\sqrt{3}i}{66}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{6}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix													
929	$\mathbb{T}_{4,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$-\frac{\sqrt{30}i}{33}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{4\sqrt{2}i}{33}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}i}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}i}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{2}i}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{30}i}{33}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{30}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{4\sqrt{2}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}i}{33}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{\sqrt{15}i}{33}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{4\sqrt{2}i}{33}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{30}i}{33}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
930	$\mathbb{T}_{4,-1}^{(1,0;a)}$	0	0	0	0	0	0	$\frac{\sqrt{42i}}{66}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{13\sqrt{30i}}{330}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{5i}}{330}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{7\sqrt{3i}}{66}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{6i}}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2i}}{33}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{5\sqrt{2i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{6i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{7\sqrt{3i}}{66}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{5i}}{330}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{13\sqrt{30i}}{330}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{\sqrt{42i}}{66}$	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
931	$\mathbb{T}_{4,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{105i}}{55}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{3\sqrt{30i}}{110}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{17\sqrt{10i}}{330}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{\sqrt{3i}}{33}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{15i}}{33}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{15i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{\sqrt{3i}}{33}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{17\sqrt{10i}}{330}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{3\sqrt{30i}}{110}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{\sqrt{105i}}{55}$	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
932	$\mathbb{T}_{4,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{7\sqrt{15}i}{110}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{105}i}{330}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{7\sqrt{70}i}{330}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{\sqrt{210}i}{66}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{\sqrt{210}i}{66}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{7\sqrt{70}i}{330}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{105}i}{330}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{7\sqrt{15}i}{110}$	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
933	$\mathbb{T}_{4,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$\frac{2\sqrt{7}i}{33}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{105}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{7\sqrt{30}i}{165}$	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
934	$\mathbb{T}_{6,6}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}i}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{10\sqrt{231}i}{429}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
935	$\mathbb{T}_{6,5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{11}i}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{385}i}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{385}i}{429}$	0	0	0	0	0	0	0	0	
		0	0	0	0	0	$\frac{35\sqrt{11}i}{429}$	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
936	$\mathbb{T}_{6,4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{10}i}{429}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{35}i}{429}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	$\frac{10\sqrt{35}i}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{35\sqrt{10}i}{429}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix											
937	$\mathbb{T}_{6,3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{3}i}{429}$	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{35i}{143}$	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{6}i}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{42}i}{429}$	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{35i}{143}$	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{3}i}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
938	$\mathbb{T}_{6,2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$\frac{70\sqrt{3}i}{1287}$	0	0	0	0	
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{15}i}{1287}$	0	0	0	
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{2}i}{429}$	0	0	
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{6}i}{1287}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{21}i}{1287}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{10\sqrt{21}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{70\sqrt{6}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{70\sqrt{2}i}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{70\sqrt{15}i}{1287}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{70\sqrt{3}i}{1287}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
939	$\mathbb{T}_{6,1}^{(1,0;a)}$	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{2}i}{858}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{175\sqrt{6}i}{2574}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{175\sqrt{3}i}{1287}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{5}i}{429}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{30}i}{2574}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{42}i}{2574}$
		$-\frac{5\sqrt{42}i}{2574}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35\sqrt{30}i}{2574}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{35\sqrt{5}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{175\sqrt{3}i}{1287}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{175\sqrt{6}i}{2574}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{35\sqrt{2}i}{858}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
940	$\mathbb{T}_{6,0}^{(1,0;a)}$	0	0	0	0	0	0	0	$\frac{5\sqrt{7}i}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{5\sqrt{105}i}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{25\sqrt{14}i}{429}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{25\sqrt{14}i}{429}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{105}i}{429}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{7}i}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{5\sqrt{7}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{105}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{25\sqrt{14}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{25\sqrt{14}i}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{5\sqrt{105}i}{429}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{7}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
941	$\mathbb{T}_{6,-1}^{(1,0;a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{42i}}{2574}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{35\sqrt{30i}}{2574}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{35\sqrt{5i}}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{175\sqrt{3i}}{1287}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{175\sqrt{6i}}{2574}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{2i}}{858}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{2i}}{858}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{175\sqrt{6i}}{2574}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{175\sqrt{3i}}{1287}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{35\sqrt{5i}}{429}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{35\sqrt{30i}}{2574}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5\sqrt{42i}}{2574}$	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
942	$\mathbb{T}_{6,-2}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{21}i}{1287}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{70\sqrt{6}i}{1287}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{70\sqrt{2}i}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{15}i}{1287}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{3}i}{1287}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{70\sqrt{3}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{70\sqrt{15}i}{1287}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{70\sqrt{2}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{70\sqrt{6}i}{1287}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{10\sqrt{21}i}{1287}$	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
943	$\mathbb{T}_{6,-3}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{42}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{35i}{143}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{35\sqrt{3}i}{429}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{3}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35i}{143}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{5\sqrt{42}i}{429}$	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
944	$\mathbb{T}_{6,-4}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{35}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35\sqrt{10}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{6}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{35\sqrt{10}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{35}i}{429}$	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix														
945	$\mathbb{T}_{6,-5}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{385}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35\sqrt{11}i}{429}$	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{35\sqrt{11}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{385}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
946	$\mathbb{T}_{6,-6}^{(1,0;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{231}i}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		$-\frac{10\sqrt{231}i}{429}$	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
947	$M_{1,1}^{(a)}$	0	$-\frac{4\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0
		0	0	$-\frac{16}{7}$	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$-\frac{12\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0
		0	0	0	0	$-\frac{16}{7}$	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$
		$\frac{\sqrt{21}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{14}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{6\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{30}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	$-\frac{12\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{30}}{7}$	0	0
		0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0	$-\frac{6\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{3\sqrt{14}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
948	$M_{1,0}^{(a)}$	$\frac{20}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$\frac{12}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$-\frac{12}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0
		0	0	0	0	0	$-\frac{20}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0
		0	0	0	0	0	0	3	0	0	0	0	0	0	0
		$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{15}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{9}{7}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{3}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{9}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{15}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	-3

*continued ...*

Table 10

No.	multipole	matrix													
949	$\mathbb{M}_{1,-1}^{(a)}$	0	0	0	0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0
		0	$\frac{16}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0
		0	0	$\frac{12\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0
		0	0	0	$\frac{16}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{3\sqrt{14}}{7}$	0	0	0	0	0	0	0
		$\frac{1}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{30}}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{12\sqrt{2}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{30}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{6\sqrt{6}}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{14}}{7}$	0

*continued ...*

Table 10

No.	multipole	matrix													
950	$\mathbb{M}_{3,3}^{(a)}$	0	0	0	$\frac{5\sqrt{2}}{7}$	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	
		0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{2}}{7}$	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{21}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$	0	0	0	0	
		0	0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	$\frac{8}{7}$	0	0	0	
		0	0	0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	$\frac{4\sqrt{5}}{7}$	0	0	
		0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	$\frac{8}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
951	$\mathbb{M}_{3,2}^{(a)}$	0	0	$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	
		0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	
		0	0	0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	
		0	0	0	0	0	$\frac{5\sqrt{3}}{7}$	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{2\sqrt{7}}{7}$	0	0	0	0	0	$-\frac{\sqrt{70}}{7}$	0	0	0	0	0	0
		0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0
		0	0	0	0	0	$-\frac{4}{7}$	0	0	0	0	0	$\frac{3\sqrt{6}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{70}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
952	$M_{3,1}^{(a)}$	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$
		$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix														
953	$M_{3,0}^{(a)}$	$-\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	0
		0	1	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0
		0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0
		0	0	0	0	-1	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0
		0	0	0	0	0	0	-1	0	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	1	0	0	0	0	0	0
		0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0	0
		0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{3}{7}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	-1	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{5}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

continued ...

Table 10

No.	multipole	matrix													
954	$\mathbb{M}_{3,-1}^{(a)}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0
		0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0	0	0	0
		0	0	$\frac{1}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{5}}{7}$	0	0	0
		0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{2}{7}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{21}}{7}$	0

continued ...

Table 10

No.	multipole	matrix													
955	$\mathbb{M}_{3,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$\frac{\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{4}{7}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{70}}{7}$	0	0	0	0	0	0	0
		$-\frac{4}{7}$	0	0	0	0	0	0	$-\frac{3\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{5}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{2}}{7}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{7}$	0	0	0	0
		0	0	0	$\frac{\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{6}}{7}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{70}}{7}$	0	0

continued ...

Table 10

No.	multipole	matrix													
956	$\mathbb{M}_{3,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{7}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0	0	0	0	0
		0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{7}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{8}{7}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{21}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{7}}{7}$	0	0	0

continued ...

Table 10

No.	multipole	matrix												
957	$M_{5,5}^{(a)}$	0	0	0	0	0	$-\frac{20\sqrt{7}}{77}$	0	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$	0
		0	0	0	0	0	$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{7}}{77}$
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
958	$M_{5,4}^{(a)}$	0	0	0	0	$\frac{10\sqrt{14}}{77}$	0	0	0	0	0	$\frac{10\sqrt{35}}{77}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{14}}{77}$	0	0	0	0	0	$\frac{10\sqrt{21}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{6}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$-\frac{10\sqrt{6}}{33}$	0	0	0	0	0	$\frac{5\sqrt{2}}{11}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{35}}{77}$	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{11}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
959	$M_{5,3}^{(a)}$	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{35}}{231}$	0	0	0	0	0	$\frac{5\sqrt{14}}{77}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0	0	$\frac{10\sqrt{21}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	$-\frac{20}{33}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{21}}{77}$	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{14}}{77}$	0	0	0	0	0	$\frac{20\sqrt{35}}{231}$	0	0
		0	0	0	0	0	$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$\frac{10\sqrt{7}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{20}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
960	$M_{5,2}^{(a)}$	0	0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	$\frac{50\sqrt{7}}{231}$	0	0	0	0	
		0	0	0	$-\frac{10\sqrt{105}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0	
		0	0	0	0	$\frac{10\sqrt{105}}{231}$	0	0	0	0	0	$-\frac{10\sqrt{42}}{231}$	0	0	
		0	0	0	0	0	$-\frac{10\sqrt{21}}{231}$	0	0	0	0	0	$\frac{40\sqrt{14}}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$-\frac{10}{33}$	0	0	0	0	0	$\frac{5\sqrt{10}}{33}$	0	0	0	0	0	
		0	0	$\frac{40\sqrt{14}}{231}$	0	0	0	0	0	$-\frac{5\sqrt{42}}{77}$	0	0	0	0	
		0	0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	
		0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	0	$\frac{20\sqrt{14}}{231}$	0	0	
		0	0	0	0	0	$\frac{50\sqrt{7}}{231}$	0	0	0	0	0	$\frac{5\sqrt{42}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

continued ...



Table 10

No.	multipole	matrix												
961	$M_{5,1}^{(a)}$	0	$-\frac{10\sqrt{6}}{231}$	0	0	0	0	0	$-\frac{25\sqrt{15}}{231}$	0	0	0	0	0
		0	0	$\frac{20\sqrt{15}}{231}$	0	0	0	0	0	$\frac{65\sqrt{5}}{231}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{30}}{231}$	0	0	0	0	0	$-\frac{5\sqrt{10}}{231}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{15}}{231}$	0	0	0	0	0	$-\frac{5\sqrt{6}}{21}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{6}}{231}$	0	0	0	0	0	$\frac{115}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{35}}{231}$
		$\frac{5\sqrt{35}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$	0	0	0	0	0
		0	$-\frac{115}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{10}}{231}$	0	0	0	0
		0	0	$\frac{5\sqrt{6}}{21}$	0	0	0	0	0	$-\frac{5\sqrt{2}}{231}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{10}}{231}$	0	0	0	0	0	$-\frac{20\sqrt{30}}{231}$	0	0	0
		0	0	0	0	$-\frac{65\sqrt{5}}{231}$	0	0	0	0	0	$-\frac{5\sqrt{2}}{231}$	0	0
		0	0	0	0	0	$\frac{25\sqrt{15}}{231}$	0	0	0	0	0	$\frac{40\sqrt{10}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
962	$M_{5,0}^{(a)}$	$\frac{10}{231}$	0	0	0	0	0	0	$\frac{25\sqrt{6}}{231}$	0	0	0	0	0	0	
		0	$-\frac{50}{231}$	0	0	0	0	0	0	$-\frac{15\sqrt{10}}{77}$	0	0	0	0	0	
		0	0	$\frac{100}{231}$	0	0	0	0	0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	0	
		0	0	0	$-\frac{100}{231}$	0	0	0	0	0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	
		0	0	0	0	$\frac{50}{231}$	0	0	0	0	0	0	$-\frac{15\sqrt{10}}{77}$	0	0	
		0	0	0	0	0	$-\frac{10}{231}$	0	0	0	0	0	0	$\frac{25\sqrt{6}}{231}$	0	
		0	0	0	0	0	0	$\frac{5}{33}$	0	0	0	0	0	0	0	
		$\frac{25\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{115}{231}$	0	0	0	0	0	0	
		0	$-\frac{15\sqrt{10}}{77}$	0	0	0	0	0	0	$\frac{85}{231}$	0	0	0	0	0	
		0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{25}{77}$	0	0	0	0	
		0	0	0	$\frac{50\sqrt{3}}{231}$	0	0	0	0	0	0	$-\frac{25}{77}$	0	0	0	
		0	0	0	0	$-\frac{15\sqrt{10}}{77}$	0	0	0	0	0	0	$-\frac{85}{231}$	0	0	
		0	0	0	0	0	$\frac{25\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{115}{231}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5}{33}$	

*continued ...*

Table 10

No.	multipole	matrix													
963	$\mathbb{M}_{5,-1}^{(a)}$	0	0	0	0	0	0	$-\frac{5\sqrt{35}}{231}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$\frac{115}{231}$	0	0	0	0	0	0
		0	$-\frac{20\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$\frac{20\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{231}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{65\sqrt{5}}{231}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{6}}{231}$	0	0	0	0	0	0	$-\frac{25\sqrt{15}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0	0	0	0	0	0	0
		$\frac{25\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{10}}{231}$	0	0	0	0	0	0
		0	$-\frac{65\sqrt{5}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{231}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{10}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{30}}{231}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{5\sqrt{2}}{231}$	0	0	0
		0	0	0	0	$-\frac{115}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{10}}{231}$	0	0
		0	0	0	0	0	$\frac{5\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0

continued ...

Table 10

No.	multipole	matrix													
964	$\mathbb{M}_{5,-2}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10}{33}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{14}}{231}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	0	0
		0	0	$\frac{10\sqrt{105}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	$\frac{50\sqrt{7}}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{10}}{33}$	0	0	0	0	0	0	0
		$\frac{50\sqrt{7}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{77}$	0	0	0	0	0	0
		0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{14}}{231}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{42}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{14}}{231}$	0	0	0	0
		0	0	0	$\frac{40\sqrt{14}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{77}$	0	0	0
		0	0	0	0	$-\frac{10}{33}$	0	0	0	0	0	0	$-\frac{5\sqrt{10}}{33}$	0	0

continued ...

Table 10

No.	multipole	matrix													
965	$\mathbb{M}_{5,-3}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{14}}{231}$	0	0	0	0	0	$\frac{10\sqrt{21}}{77}$	0	0	0	0	0	0	0
		0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	0	$\frac{5\sqrt{14}}{77}$	0	0	0	0	0	0
		0	0	$\frac{20\sqrt{14}}{231}$	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{20}{33}$	0	0	0	0	0	0	0
		$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	$-\frac{10\sqrt{7}}{231}$	0	0	0	0	0	0	0
		0	$-\frac{5\sqrt{14}}{77}$	0	0	0	0	0	$-\frac{20\sqrt{35}}{231}$	0	0	0	0	0	0
		0	0	$-\frac{10\sqrt{21}}{77}$	0	0	0	0	0	$-\frac{10\sqrt{7}}{231}$	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	$\frac{20}{33}$	0	0	0

continued ...

Table 10

No.	multipole	matrix													
966	$\mathbb{M}_{5,-4}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{6}}{33}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0
		0	$-\frac{10\sqrt{14}}{77}$	0	0	0	0	0	0	$\frac{10\sqrt{35}}{77}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{2}}{11}$	0	0	0	0	0	0	0
		$\frac{10\sqrt{35}}{77}$	0	0	0	0	0	0	$\frac{5\sqrt{210}}{231}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{21}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{210}}{231}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{6}}{33}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{11}$	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
967	$\mathbb{M}_{5,-5}^{(a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	0	$-\frac{25\sqrt{42}}{231}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0	0	0
		$\frac{25\sqrt{42}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{7}}{77}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{30}}{33}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{33}$	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
968	$M_{1,1}^{(1,-1;a)}$	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0	0	0	0
		0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0
		0	0	0	0	$\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{7}$	0	0
		0	0	0	0	0	$\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$
		$-\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{14}}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{7}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{7}$	0	0
		0	0	0	0	0	$-\frac{2}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{7}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix													
969	$M_{1,0}^{(1,-1;a)}$	$-\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$-\frac{3}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0
		0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0
		0	0	0	$\frac{1}{7}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$\frac{3}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0
		0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0
		0	0	0	0	0	0	1	0	0	0	0	0	0	0
		$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{5}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{3}{7}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{3}}{7}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$-\frac{3}{7}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$-\frac{5}{7}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	-1

continued ...

Table 10

No.	multipole	matrix													
970	$M_{1,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0
		0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{10}}{7}$	0	0	0	0	0
		0	0	$-\frac{3\sqrt{2}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0
		0	0	0	$-\frac{4}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{7}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{2}{7}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0	0	0	0	0	0	0
		$-\frac{2}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{3}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{6}}{7}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{7}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{7}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{15}}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{7}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{21}}{7}$	0	0	0	0	0	0	$\frac{\sqrt{14}}{7}$	0

continued ...

Table 10

No.	multipole	matrix												
971	$\mathbb{M}_{3,3}^{(1,-1;a)}$	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{10}}{105}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{3}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{4\sqrt{35}}{105}$	0	0	0	0	0	$\frac{2\sqrt{105}}{105}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{30}}{105}$	0	0	0	0	0	$\frac{4\sqrt{3}}{21}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	$\frac{8\sqrt{15}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{105}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
972	$M_{3,2}^{(1,-1;a)}$	0	0	$\frac{2\sqrt{5}}{35}$	0	0	0	0	0	$\frac{16\sqrt{15}}{315}$	0	0	0	0		
		0	0	0	$\frac{2}{35}$	0	0	0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0		
		0	0	0	0	$-\frac{2}{35}$	0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0		
		0	0	0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{4\sqrt{30}}{315}$	0		
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{8\sqrt{105}}{315}$		
		0	0	0	0	0	0	0	0	0	0	0	0	0		
		0	$-\frac{8\sqrt{105}}{315}$	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	
		0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	0	
		0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	
		0	0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	
		0	0	0	0	0	$\frac{16\sqrt{15}}{315}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
973	$M_{3,1}^{(1,-1;a)}$	0	$-\frac{4}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{105}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{315}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{315}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{21}$	0	0
		0	0	0	0	0	$-\frac{4}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{63}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{315}$
		$\frac{4\sqrt{210}}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{35}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0
		0	0	$-\frac{4}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{315}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{30}}{315}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{35}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
974	$M_{3,0}^{(1,-1;a)}$	$\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{8\sqrt{15}}{525}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0
		0	0	0	$\frac{8\sqrt{15}}{525}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}}{75}$	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0
		0	0	0	0	0	0	$-\frac{\sqrt{15}}{15}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{21}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{15}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{15}}{15}$	0	0
		0	0	0	0	0	$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{15}}{15}$

continued ...

Table 10

No.	multipole	matrix													
975	$M_{3,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$-\frac{4\sqrt{210}}{315}$	0	0	0	0	0	0	0
		$\frac{4}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{4}{21}$	0	0	0	0	0
		0	0	$-\frac{8\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{315}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{8\sqrt{30}}{315}$	0	0	0
		0	0	0	0	$\frac{4}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{10}}{105}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{35}}{35}$	0	0	0	0	0	0	0
		$\frac{8\sqrt{10}}{105}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{315}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0
		0	0	0	$-\frac{4}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{105}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{210}}{315}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{35}$	0

*continued ...*

Table 10

No.	multipole	matrix													
976	$M_{3,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{8\sqrt{105}}{315}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{5}}{35}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0
		0	$\frac{2}{35}$	0	0	0	0	0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0
		0	0	$-\frac{2}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{5}}{35}$	0	0	0	0	0	0	$\frac{16\sqrt{15}}{315}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{42}}{21}$	0	0	0	0	0	0	0
		$\frac{16\sqrt{15}}{315}$	0	0	0	0	0	0	$-\frac{3\sqrt{10}}{35}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{30}}{315}$	0	0	0	0	0	0	$\frac{3\sqrt{10}}{35}$	0	0	0
		0	0	0	0	$-\frac{8\sqrt{105}}{315}$	0	0	0	0	0	0	$\frac{\sqrt{42}}{21}$	0	0

continued ...



Table 10

No.	multipole	matrix													
977	$M_{3,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{4\sqrt{35}}{105}$	0	0	0	0	0	0	0
		$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{5}}{35}$	0	0	0	0	0	0	0
		0	$\frac{8\sqrt{3}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{30}}{105}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0	$-\frac{4\sqrt{10}}{105}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{105}}{105}$	0	0	0	0	0	0	0
		$\frac{4\sqrt{10}}{105}$	0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0	0	0
		0	$\frac{4\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{4\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{5}}{35}$	0	0	0	0	0	$-\frac{8\sqrt{15}}{105}$	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{35}}{105}$	0	0	0	0	0	$-\frac{2\sqrt{105}}{105}$	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
978	$M_{5,5}^{(1,-1;a)}$	0	0	0	0	0	$\frac{2\sqrt{35}}{231}$	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{6}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	$-\frac{2\sqrt{15}}{33}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{35}}{77}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{15}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
979	$M_{5,4}^{(1,-1;a)}$	0	0	0	0	$-\frac{\sqrt{70}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0
		0	0	0	0	0	$\frac{\sqrt{70}}{231}$	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{30}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{4\sqrt{30}}{165}$	0	0	0	0	0	$\frac{\sqrt{10}}{11}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{10}}{11}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
980	$M_{5,3}^{(1,-1;a)}$	0	0	0	$\frac{2\sqrt{70}}{693}$	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{7}}{693}$	0	0	0	0	0	$-\frac{2\sqrt{70}}{385}$	0	0
		0	0	0	0	0	$\frac{2\sqrt{70}}{693}$	0	0	0	0	0	$-\frac{4\sqrt{105}}{385}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{15}}{165}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{165}$	0	0	0	0	0	$-\frac{4\sqrt{5}}{33}$	0	0	0	0
		0	0	0	$\frac{4\sqrt{105}}{385}$	0	0	0	0	0	$\frac{2\sqrt{35}}{231}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{70}}{385}$	0	0	0	0	0	$\frac{20\sqrt{7}}{231}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	$\frac{2\sqrt{35}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{33}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
981	$M_{5,2}^{(1,-1;a)}$	0	0	$-\frac{\sqrt{105}}{693}$	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	
		0	0	0	$\frac{5\sqrt{21}}{693}$	0	0	0	0	0	$\frac{8\sqrt{7}}{231}$	0	0	0	
		0	0	0	0	$-\frac{5\sqrt{21}}{693}$	0	0	0	0	0	$\frac{4\sqrt{210}}{1155}$	0	0	
		0	0	0	0	0	$\frac{\sqrt{105}}{693}$	0	0	0	0	0	$-\frac{16\sqrt{70}}{1155}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{4\sqrt{5}}{165}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	$\frac{4\sqrt{5}}{165}$	0	0	0	0	0	$\frac{5\sqrt{2}}{33}$	0	0	0	0	0	
		0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	0	0	0	$-\frac{\sqrt{210}}{77}$	0	0	0	0	
		0	0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	0	0	$-\frac{4\sqrt{70}}{231}$	0	0	0	
		0	0	0	0	$\frac{8\sqrt{7}}{231}$	0	0	0	0	0	$\frac{4\sqrt{70}}{231}$	0	0	
		0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{33}$	
		0	0	0	0	0	0	0	0	0	0	0	0	0	
		0	0	0	0	0	0	0	0	0	0	0	0	0	

*continued ...*

Table 10

No.	multipole	matrix													
982	$M_{5,1}^{(1,-1;a)}$	0	$\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$-\frac{26}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{6}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{231}$	0	0	0
		0	0	0	0	$-\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0
		0	0	0	0	0	$\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$-\frac{46\sqrt{5}}{1155}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{7}}{231}$
		$-\frac{2\sqrt{7}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0
		0	$\frac{46\sqrt{5}}{1155}$	0	0	0	0	0	0	$\frac{40\sqrt{2}}{231}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{2}}{231}$	0	0	0	0	0	0	$-\frac{20\sqrt{6}}{231}$	0	0	0
		0	0	0	0	$\frac{26}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{231}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$\frac{40\sqrt{2}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
983	$M_{5,0}^{(1,-1;a)}$	$-\frac{\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{5}}{693}$	0	0	0	0	0	0	$\frac{6\sqrt{2}}{77}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{5}}{693}$	0	0	0	0	0	0	$\frac{6\sqrt{2}}{77}$	0	0
		0	0	0	0	0	$\frac{\sqrt{5}}{693}$	0	0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0
		0	0	0	0	0	0	$\frac{\sqrt{5}}{33}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$-\frac{23\sqrt{5}}{231}$	0	0	0	0	0	0
		0	$\frac{6\sqrt{2}}{77}$	0	0	0	0	0	0	$\frac{17\sqrt{5}}{231}$	0	0	0	0	0
		0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{5}}{77}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{231}$	0	0	0	0	0	0	$-\frac{5\sqrt{5}}{77}$	0	0	0
		0	0	0	0	$\frac{6\sqrt{2}}{77}$	0	0	0	0	0	0	$-\frac{17\sqrt{5}}{231}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{30}}{231}$	0	0	0	0	0	0	$\frac{23\sqrt{5}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{5}}{33}$

continued ...

Table 10

No.	multipole	matrix													
984	$M_{5,-1}^{(1,-1;a)}$	0	0	0	0	0	0	$\frac{2\sqrt{7}}{231}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$-\frac{46\sqrt{5}}{1155}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{30}}{105}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{6}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{2}}{231}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{3}}{693}$	0	0	0	0	0	0	$-\frac{26}{231}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}}{693}$	0	0	0	0	0	0	$\frac{10\sqrt{3}}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{3}}{231}$	0	0	0	0	0	0	$-\frac{40\sqrt{2}}{231}$	0	0	0	0	0	0
		0	$\frac{26}{231}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{231}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{2}}{231}$	0	0	0	0	0	0	$\frac{20\sqrt{6}}{231}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{30}}{105}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{231}$	0	0	0
		0	0	0	0	$\frac{46\sqrt{5}}{1155}$	0	0	0	0	0	0	$-\frac{40\sqrt{2}}{231}$	0	0
		0	0	0	0	0	$-\frac{2\sqrt{7}}{231}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0

*continued ...*



Table 10

No.	multipole	matrix													
985	$M_{5,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{5}}{165}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{105}}{693}$	0	0	0	0	0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{21}}{693}$	0	0	0	0	0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{21}}{693}$	0	0	0	0	0	0	$\frac{8\sqrt{7}}{231}$	0	0	0	0
		0	0	0	$\frac{\sqrt{105}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{35}}{231}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{2}}{33}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{35}}{231}$	0	0	0	0	0	0	$-\frac{\sqrt{210}}{77}$	0	0	0	0	0	0
		0	$\frac{8\sqrt{7}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{70}}{231}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{210}}{1155}$	0	0	0	0	0	0	$\frac{4\sqrt{70}}{231}$	0	0	0	0
		0	0	0	$-\frac{16\sqrt{70}}{1155}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{77}$	0	0	0
		0	0	0	0	$\frac{4\sqrt{5}}{165}$	0	0	0	0	0	0	$-\frac{5\sqrt{2}}{33}$	0	0

*continued ...*

Table 10

No.	multipole	matrix													
986	$M_{5,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{15}}{165}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{70}}{693}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{385}$	0	0	0	0	0	0
		0	$\frac{10\sqrt{7}}{693}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{385}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{70}}{693}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{5}}{33}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{231}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{70}}{385}$	0	0	0	0	0	0	$-\frac{20\sqrt{7}}{231}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{105}}{385}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{231}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{15}}{165}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{33}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
987	$M_{5,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{30}}{165}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{70}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	0
		0	$\frac{\sqrt{70}}{231}$	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{77}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{\sqrt{10}}{11}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{7}}{77}$	0	0	0	0	0	0	$\frac{5\sqrt{42}}{231}$	0	0	0	0	0	0
		0	$-\frac{4\sqrt{105}}{1155}$	0	0	0	0	0	0	$-\frac{5\sqrt{42}}{231}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{30}}{165}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{11}$	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
988	$M_{5,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{35}}{231}$	0	0	0	0	0	0	$\frac{2\sqrt{210}}{231}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{15}}{33}$	0	0	0	0	0	0	0
		$-\frac{2\sqrt{210}}{231}$	0	0	0	0	0	0	$\frac{4\sqrt{35}}{77}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{6}}{33}$	0	0	0	0	0	0	$\frac{2\sqrt{15}}{33}$	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
989	$M_{7,7}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{462}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
990	$M_{7,6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{231}}{429}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
991	$M_{7,5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2002}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{858}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2002}}{1859}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix															
992	$M_{7,4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{5\sqrt{30030}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{286}}{1859}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{286}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{30030}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix													
993	$M_{7,3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{10\sqrt{2730}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{78}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{2730}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
994	$M_{7,2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{10\sqrt{91}}{1859}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{70\sqrt{195}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{65}}{1859}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{65}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{195}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{91}}{1859}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
995	$M_{7,1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{182}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{70\sqrt{78}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{70\sqrt{390}}{5577}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{350\sqrt{26}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{390}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{78}}{5577}$	0	$\frac{10\sqrt{182}}{5577}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
996	$M_{7,0}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{5\sqrt{91}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{35\sqrt{91}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{35\sqrt{91}}{1859}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{175\sqrt{91}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{175\sqrt{91}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{35\sqrt{91}}{1859}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{35\sqrt{91}}{5577}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{91}}{5577}$	0

continued ...

Table 10

No.	multipole	matrix													
997	$M_{7,-1}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{182}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{70\sqrt{78}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{350\sqrt{26}}{5577}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{390}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{70\sqrt{78}}{5577}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$-\frac{10\sqrt{182}}{5577}$	0	0

*continued ...*

Table 10

No.	multipole	matrix													
998	$M_{7,-2}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{91}}{1859}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{70\sqrt{195}}{5577}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{70\sqrt{65}}{1859}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$\frac{70\sqrt{65}}{1859}$	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	$-\frac{70\sqrt{195}}{5577}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{91}}{1859}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix											
999	$M_{7,-3}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix											
1000	$M_{7,-4}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix												
1001	$M_{7,-5}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{2002}}{1859}$	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{70\sqrt{858}}{5577}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	$-\frac{10\sqrt{2002}}{1859}$	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
1002	$M_{7,-6}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{231}}{429}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	$\frac{10\sqrt{231}}{429}$	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix														
1003	$M_{7,-7}^{(1,-1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{462}}{429}$	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
1004	$M_{1,1}^{(1,1;a)}$	0	$-\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{70}$	0	0	0	0	0
		0	0	$-\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	0	0
		0	0	0	$-\frac{24\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0
		0	0	0	0	$-\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0
		0	0	0	0	0	$-\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{210}}{70}$
		$-\frac{\sqrt{210}}{70}$	0	0	0	0	0	0	$\frac{2\sqrt{35}}{105}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{105}$	0	0	0	0	0
		0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{8\sqrt{5}}{105}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0	0	$\frac{2\sqrt{3}}{21}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{10}}{70}$	0	0	0	0	0	0	$\frac{4\sqrt{15}}{105}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{2\sqrt{35}}{105}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
1005	$\mathbb{M}_{1,0}^{(1,1;a)}$	$\frac{4\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0
		0	$\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0
		0	0	$\frac{4\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0
		0	0	0	$-\frac{4\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0
		0	0	0	0	$-\frac{12\sqrt{10}}{175}$	0	0	0	0	0	0	$-\frac{1}{7}$	0	0
		0	0	0	0	0	$-\frac{4\sqrt{10}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0
		0	0	0	0	0	0	$-\frac{\sqrt{10}}{15}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{21}$	0	0	0	0	0	0
		0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{35}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0	0	0	$-\frac{\sqrt{10}}{105}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{30}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{105}$	0	0	0
		0	0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{35}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{21}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{\sqrt{10}}{15}$

continued ...

Table 10

No.	multipole	matrix													
1006	$M_{1,-1}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{\sqrt{210}}{70}$	0	0	0	0	0	0	0
		$\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{14}$	0	0	0	0	0	0
		0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{1}{7}$	0	0	0	0	0
		0	0	$\frac{24\sqrt{5}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{35}$	0	0	0	0
		0	0	0	$\frac{16\sqrt{10}}{175}$	0	0	0	0	0	0	$\frac{\sqrt{30}}{70}$	0	0	0
		0	0	0	0	$\frac{8}{35}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{70}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{2\sqrt{35}}{105}$	0	0	0	0	0	0	0
		$-\frac{\sqrt{10}}{70}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{30}}{70}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{35}$	0	0	0	0	0	0	$-\frac{8\sqrt{5}}{105}$	0	0	0	0
		0	0	0	$-\frac{1}{7}$	0	0	0	0	0	0	$-\frac{2\sqrt{3}}{21}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{6}}{14}$	0	0	0	0	0	0	$-\frac{4\sqrt{15}}{105}$	0	0
		0	0	0	0	0	$-\frac{\sqrt{210}}{70}$	0	0	0	0	0	0	$-\frac{2\sqrt{35}}{105}$	0

*continued ...*

Table 10

No.	multipole	matrix												
1007	$M_{3,3}^{(1,1;a)}$	0	0	0	$\frac{10\sqrt{2}}{63}$	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0	0	0
		0	0	0	0	$\frac{8\sqrt{5}}{63}$	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{2}}{63}$	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{21}}{42}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{\sqrt{21}}{42}$	0	0	0	0	0	$-\frac{4\sqrt{7}}{231}$	0	0	0	0
		0	0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	0	$-\frac{16}{231}$	0	0	0
		0	0	0	0	$\frac{\sqrt{2}}{14}$	0	0	0	0	0	$-\frac{8\sqrt{5}}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	$-\frac{16}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{7}}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
1008	$M_{3,2}^{(1,1;a)}$	0	0	$-\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{2}{21}$	0	0	0	0
		0	0	0	$-\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0
		0	0	0	0	$\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0
		0	0	0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	$\frac{2\sqrt{70}}{231}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	0	$\frac{2\sqrt{6}}{77}$	0	0	0	0	0
		0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	$\frac{4\sqrt{2}}{231}$	0	0	0	0
		0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	0	0	$-\frac{4\sqrt{2}}{231}$	0	0	0
		0	0	0	0	0	$\frac{2}{21}$	0	0	0	0	0	$-\frac{2\sqrt{6}}{77}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...



Table 10

No.	multipole	matrix													
1009	$\mathbb{M}_{3,1}^{(1,1;a)}$	0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0	0	0	0
		0	0	$-\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0	0
		0	0	0	$-\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{1}{42}$	0	0	0
		0	0	0	0	$-\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{42}$	0	0
		0	0	0	0	0	$\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{42}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{\sqrt{14}}{42}$
		$\frac{\sqrt{14}}{42}$	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{231}$	0	0	0	0	0	0
		0	$-\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$-\frac{4}{231}$	0	0	0	0	0
		0	0	$-\frac{\sqrt{15}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{231}$	0	0	0	0
		0	0	0	$-\frac{1}{42}$	0	0	0	0	0	0	$\frac{8\sqrt{3}}{231}$	0	0	0
		0	0	0	0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{5}}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{4}{231}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{4\sqrt{21}}{231}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*

Table 10

No.	multipole	matrix														
1010	$M_{3,0}^{(1,1;a)}$	$-\frac{10}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	0
		0	$\frac{2}{9}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$\frac{8}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0
		0	0	0	$-\frac{8}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0
		0	0	0	0	$-\frac{2}{9}$	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$\frac{10}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	$\frac{2}{33}$	0	0	0	0	0	0	0	0
		$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$-\frac{10}{231}$	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	$-\frac{2}{33}$	0	0	0	0	0	0
		0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$-\frac{2}{77}$	0	0	0	0	0
		0	0	0	$-\frac{\sqrt{3}}{21}$	0	0	0	0	0	0	$\frac{2}{77}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	$\frac{2}{33}$	0	0	0
		0	0	0	0	0	$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{10}{231}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$-\frac{2}{33}$	0

continued ...

Table 10

No.	multipole	matrix													
1011	$M_{3,-1}^{(1,1;a)}$	0	0	0	0	0	0	$-\frac{\sqrt{14}}{42}$	0	0	0	0	0	0	0
		$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{10}}{42}$	0	0	0	0	0	0
		0	$\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{15}}{42}$	0	0	0	0	0
		0	0	$\frac{8\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{1}{42}$	0	0	0	0
		0	0	0	$\frac{2\sqrt{6}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{21}$	0	0	0
		0	0	0	0	$-\frac{4\sqrt{15}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{21}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{21}}{231}$	0	0	0	0	0	0	0
		$\frac{\sqrt{6}}{21}$	0	0	0	0	0	0	$\frac{4}{231}$	0	0	0	0	0	0
		0	$\frac{\sqrt{2}}{21}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{231}$	0	0	0	0	0
		0	0	$-\frac{1}{42}$	0	0	0	0	0	0	$-\frac{8\sqrt{3}}{231}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{15}}{42}$	0	0	0	0	0	0	$-\frac{4\sqrt{5}}{231}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{10}}{42}$	0	0	0	0	0	0	$\frac{4}{231}$	0	0
		0	0	0	0	0	$\frac{\sqrt{14}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{21}}{231}$	0

*continued ...*

Table 10

No.	multipole	matrix													
1012	$\mathbb{M}_{3,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	0	0
		0	$-\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0
		0	0	$\frac{2\sqrt{15}}{63}$	0	0	0	0	0	0	$\frac{\sqrt{5}}{21}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{3}}{63}$	0	0	0	0	0	0	$\frac{2}{21}$	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{2\sqrt{70}}{231}$	0	0	0	0	0	0	0
		$\frac{2}{21}$	0	0	0	0	0	0	$\frac{2\sqrt{6}}{77}$	0	0	0	0	0	0
		0	$\frac{\sqrt{5}}{21}$	0	0	0	0	0	0	$\frac{4\sqrt{2}}{231}$	0	0	0	0	0
		0	0	$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0	$-\frac{4\sqrt{2}}{231}$	0	0	0	0
		0	0	0	$-\frac{\sqrt{2}}{42}$	0	0	0	0	0	0	$-\frac{2\sqrt{6}}{77}$	0	0	0
		0	0	0	0	$-\frac{\sqrt{7}}{21}$	0	0	0	0	0	0	$-\frac{2\sqrt{70}}{231}$	0	0

continued ...

Table 10

No.	multipole	matrix													
1013	$M_{3,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{\sqrt{21}}{42}$	0	0	0	0	0	0	0
		$-\frac{10\sqrt{2}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{3}}{14}$	0	0	0	0	0	0
		0	$-\frac{8\sqrt{5}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{2}}{14}$	0	0	0	0	0
		0	0	$-\frac{10\sqrt{2}}{63}$	0	0	0	0	0	0	$-\frac{\sqrt{6}}{42}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{4\sqrt{7}}{231}$	0	0	0	0	0	0	0
		$\frac{\sqrt{6}}{42}$	0	0	0	0	0	0	$\frac{16}{231}$	0	0	0	0	0	0
		0	$\frac{\sqrt{2}}{14}$	0	0	0	0	0	0	$\frac{8\sqrt{5}}{231}$	0	0	0	0	0
		0	0	$\frac{\sqrt{3}}{14}$	0	0	0	0	0	0	$\frac{16}{231}$	0	0	0	0
		0	0	0	$\frac{\sqrt{21}}{42}$	0	0	0	0	0	0	$\frac{4\sqrt{7}}{231}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix													
1014	$M_{5,5}^{(1,1;a)}$	0	0	0	0	0	$-\frac{20\sqrt{546}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{65}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	$-\frac{5\sqrt{65}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{26}}{1859}$	0
		0	0	0	0	0	$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0	$\frac{20\sqrt{546}}{13013}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{26}}{1859}$
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
1015	$M_{5,4}^{(1,1;a)}$	0	0	0	0	$\frac{20\sqrt{273}}{1001}$	0	0	0	0	0	$-\frac{5\sqrt{2730}}{3003}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{273}}{1001}$	0	0	0	0	0	$-\frac{5\sqrt{182}}{3003}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{13}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	$\frac{10\sqrt{13}}{429}$	0	0	0	0	0	$-\frac{10\sqrt{39}}{1859}$	0	0	0
		0	0	0	0	$-\frac{5\sqrt{182}}{3003}$	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2730}}{3003}$	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{39}}{1859}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
1016	$M_{5,3}^{(1,1;a)}$	0	0	0	$-\frac{40\sqrt{273}}{3003}$	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{2730}}{3003}$	0	0	0	0	0	$-\frac{5\sqrt{273}}{3003}$	0	0
		0	0	0	0	0	$-\frac{40\sqrt{273}}{3003}$	0	0	0	0	0	$-\frac{5\sqrt{182}}{1001}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{26}}{429}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	$-\frac{5\sqrt{26}}{429}$	0	0	0	0	0	$\frac{20\sqrt{78}}{5577}$	0	0	0	0
		0	0	0	$\frac{5\sqrt{182}}{1001}$	0	0	0	0	0	$-\frac{10\sqrt{546}}{39039}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{273}}{3003}$	0	0	0	0	0	$-\frac{20\sqrt{2730}}{39039}$	0	0
		0	0	0	0	0	$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	$-\frac{10\sqrt{546}}{39039}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{20\sqrt{78}}{5577}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

*continued ...*



Table 10

No.	multipole	matrix												
1017	$M_{5,2}^{(1,1;a)}$	0	0	$\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	$-\frac{25\sqrt{546}}{9009}$	0	0	0	0
		0	0	0	$-\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	$\frac{10\sqrt{2730}}{9009}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	$\frac{10\sqrt{91}}{3003}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	$-\frac{40\sqrt{273}}{9009}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{78}}{1287}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	$\frac{5\sqrt{78}}{1287}$	0	0	0	0	0	$-\frac{10\sqrt{195}}{5577}$	0	0	0	0	0
		0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	0	0	0	$\frac{30\sqrt{91}}{13013}$	0	0	0	0
		0	0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	0	0	$\frac{40\sqrt{273}}{39039}$	0	0	0
		0	0	0	0	$\frac{10\sqrt{2730}}{9009}$	0	0	0	0	0	$-\frac{40\sqrt{273}}{39039}$	0	0
		0	0	0	0	0	$-\frac{25\sqrt{546}}{9009}$	0	0	0	0	0	$-\frac{30\sqrt{91}}{13013}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{195}}{5577}$
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix												
1018	$M_{5,1}^{(1,1;a)}$	0	$-\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{130}}{6006}$	0	0	0	0
		0	0	$\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	$-\frac{5\sqrt{390}}{1386}$	0	0	0	0
		0	0	0	$-\frac{40\sqrt{65}}{1001}$	0	0	0	0	0	$\frac{5\sqrt{195}}{9009}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	$\frac{5\sqrt{13}}{273}$	0	0
		0	0	0	0	0	$-\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	$-\frac{115\sqrt{78}}{18018}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{2730}}{18018}$
		$-\frac{5\sqrt{2730}}{18018}$	0	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$	0	0	0	0	0
		0	$\frac{115\sqrt{78}}{18018}$	0	0	0	0	0	$-\frac{80\sqrt{195}}{39039}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{13}}{273}$	0	0	0	0	0	$\frac{10\sqrt{39}}{39039}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{195}}{9009}$	0	0	0	0	0	$\frac{40\sqrt{65}}{13013}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{390}}{1386}$	0	0	0	0	0	$\frac{10\sqrt{39}}{39039}$	0	0
		0	0	0	0	0	$-\frac{25\sqrt{130}}{6006}$	0	0	0	0	0	$-\frac{80\sqrt{195}}{39039}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$
		0	0	0	0	0	0	0	0	0	0	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1019	$M_{5,0}^{(1,1;a)}$	$\frac{10\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{13}}{3003}$	0	0	0	0	0	0
		0	$-\frac{50\sqrt{78}}{3003}$	0	0	0	0	0	0	$\frac{5\sqrt{195}}{1001}$	0	0	0	0	0
		0	0	$\frac{100\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0	0
		0	0	0	$-\frac{100\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0
		0	0	0	0	$\frac{50\sqrt{78}}{3003}$	0	0	0	0	0	0	$\frac{5\sqrt{195}}{1001}$	0	0
		0	0	0	0	0	$-\frac{10\sqrt{78}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{13}}{3003}$	0
		0	0	0	0	0	0	$-\frac{5\sqrt{78}}{5577}$	0	0	0	0	0	0	0
		$-\frac{25\sqrt{13}}{3003}$	0	0	0	0	0	0	$\frac{115\sqrt{78}}{39039}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{195}}{1001}$	0	0	0	0	0	0	$-\frac{85\sqrt{78}}{39039}$	0	0	0	0	0
		0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0	0	0	0	$-\frac{25\sqrt{78}}{13013}$	0	0	0	0
		0	0	0	$-\frac{25\sqrt{26}}{3003}$	0	0	0	0	0	0	$\frac{25\sqrt{78}}{13013}$	0	0	0
		0	0	0	0	$\frac{5\sqrt{195}}{1001}$	0	0	0	0	0	0	$\frac{85\sqrt{78}}{39039}$	0	0
		0	0	0	0	0	$-\frac{25\sqrt{13}}{3003}$	0	0	0	0	0	0	$-\frac{115\sqrt{78}}{39039}$	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	$\frac{5\sqrt{78}}{5577}$

continued ...

Table 10

No.	multipole	matrix													
1020	$M_{5,-1}^{(1,1;a)}$	0	0	0	0	0	0	$\frac{5\sqrt{2730}}{18018}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	$-\frac{115\sqrt{78}}{18018}$	0	0	0	0	0	0
		0	$-\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	0	$\frac{5\sqrt{13}}{273}$	0	0	0	0	0
		0	0	$\frac{40\sqrt{65}}{1001}$	0	0	0	0	0	0	$\frac{5\sqrt{195}}{9009}$	0	0	0	0
		0	0	0	$-\frac{20\sqrt{130}}{1001}$	0	0	0	0	0	0	$-\frac{5\sqrt{390}}{1386}$	0	0	0
		0	0	0	0	$\frac{20\sqrt{13}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{130}}{6006}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0	0	0	0	0	0	0
		$-\frac{25\sqrt{130}}{6006}$	0	0	0	0	0	0	$\frac{80\sqrt{195}}{39039}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{390}}{1386}$	0	0	0	0	0	0	$-\frac{10\sqrt{39}}{39039}$	0	0	0	0	0
		0	0	$-\frac{5\sqrt{195}}{9009}$	0	0	0	0	0	0	$-\frac{40\sqrt{65}}{13013}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{13}}{273}$	0	0	0	0	0	0	$-\frac{10\sqrt{39}}{39039}$	0	0	0
		0	0	0	0	$\frac{115\sqrt{78}}{18018}$	0	0	0	0	0	0	$\frac{80\sqrt{195}}{39039}$	0	0
		0	0	0	0	0	$-\frac{5\sqrt{2730}}{18018}$	0	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0

continued ...

Table 10

No.	multipole	matrix												
1021	$M_{5,-2}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{78}}{1287}$	0	0	0	0	0	0
		$\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	0	0	0
		0	$-\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	0
		0	0	$\frac{10\sqrt{910}}{1001}$	0	0	0	0	0	0	$\frac{10\sqrt{2730}}{9009}$	0	0	0
		0	0	0	$-\frac{10\sqrt{182}}{1001}$	0	0	0	0	0	0	$-\frac{25\sqrt{546}}{9009}$	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{195}}{5577}$	0	0	0	0	0	0
		$-\frac{25\sqrt{546}}{9009}$	0	0	0	0	0	0	$\frac{30\sqrt{91}}{13013}$	0	0	0	0	0
		0	$\frac{10\sqrt{2730}}{9009}$	0	0	0	0	0	0	$\frac{40\sqrt{273}}{39039}$	0	0	0	0
		0	0	$\frac{10\sqrt{91}}{3003}$	0	0	0	0	0	0	$-\frac{40\sqrt{273}}{39039}$	0	0	0
		0	0	0	$-\frac{40\sqrt{273}}{9009}$	0	0	0	0	0	0	$-\frac{30\sqrt{91}}{13013}$	0	0
		0	0	0	0	$\frac{5\sqrt{78}}{1287}$	0	0	0	0	0	0	$\frac{10\sqrt{195}}{5577}$	0

continued ...

Table 10

No.	multipole	matrix													
1022	$M_{5,-3}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{26}}{429}$	0	0	0	0	0	0	0
		$\frac{40\sqrt{273}}{3003}$	0	0	0	0	0	0	$-\frac{5\sqrt{182}}{1001}$	0	0	0	0	0	0
		0	$-\frac{20\sqrt{2730}}{3003}$	0	0	0	0	0	0	$-\frac{5\sqrt{273}}{3003}$	0	0	0	0	0
		0	0	$\frac{40\sqrt{273}}{3003}$	0	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{20\sqrt{78}}{5577}$	0	0	0	0	0	0	0
		$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0	$\frac{10\sqrt{546}}{39039}$	0	0	0	0	0	0
		0	$\frac{5\sqrt{273}}{3003}$	0	0	0	0	0	0	$\frac{20\sqrt{2730}}{39039}$	0	0	0	0	0
		0	0	$\frac{5\sqrt{182}}{1001}$	0	0	0	0	0	0	$\frac{10\sqrt{546}}{39039}$	0	0	0	0
		0	0	0	$-\frac{5\sqrt{26}}{429}$	0	0	0	0	0	0	$-\frac{20\sqrt{78}}{5577}$	0	0	0

*continued ...*

Table 10

No.	multipole	matrix												
1023	$M_{5,-4}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{10\sqrt{13}}{429}$	0	0	0	0	0	0
		$\frac{20\sqrt{273}}{1001}$	0	0	0	0	0	0	$-\frac{5\sqrt{182}}{3003}$	0	0	0	0	0
		0	$-\frac{20\sqrt{273}}{1001}$	0	0	0	0	0	0	$-\frac{5\sqrt{2730}}{3003}$	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{39}}{1859}$	0	0	0	0	0	0
		$-\frac{5\sqrt{2730}}{3003}$	0	0	0	0	0	0	$-\frac{10\sqrt{455}}{13013}$	0	0	0	0	0
		0	$-\frac{5\sqrt{182}}{3003}$	0	0	0	0	0	0	$\frac{10\sqrt{455}}{13013}$	0	0	0	0
		0	0	$\frac{10\sqrt{13}}{429}$	0	0	0	0	0	0	$\frac{10\sqrt{39}}{1859}$	0	0	0

continued ...

Table 10

No.	multipole	matrix													
1024	$M_{5,-5}^{(1,1;a)}$	0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$\frac{5\sqrt{65}}{429}$	0	0	0	0	0	0	0
		$\frac{20\sqrt{546}}{1001}$	0	0	0	0	0	0	$\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0	0
		0	0	0	0	0	0	$-\frac{10\sqrt{26}}{1859}$	0	0	0	0	0	0	0
		$-\frac{25\sqrt{91}}{3003}$	0	0	0	0	0	0	$-\frac{20\sqrt{546}}{13013}$	0	0	0	0	0	0
		0	$-\frac{5\sqrt{65}}{429}$	0	0	0	0	0	0	$-\frac{10\sqrt{26}}{1859}$	0	0	0	0	0