MSG No. 228.135 $Fd\bar{3}c1'$ [Type II, cubic]

Table 1: Symmetry operations for 3d polar vector.

No.	tag	matrix (polar)	det	TR
1	$\{1\|0\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	1
2	$\{4^+_{100}\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	1
3	$\{4^-_{100}\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
4	$\{4^+_{010}\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
5	$\{4^-_{010}\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	1
6	$\{4^+_{001}\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$	1	1
7	$\{4^-_{001}\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$	1	1
8	$\{2_{100}\|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	1	1
9	$\{2_{010}\|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	1	1
10	$\{2_{001}\|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	1
11	$\{2_{110}\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	1
12	$\{2_{1-10}\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	1
13	$\{2_{011}\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	1

Table 1

No.	tag	matrix (polar)				det	TR
14	$\{2_{01-1}\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	-1	0	0	$\frac{1}{2}$	1	1
		0	0	-1	$\frac{1}{2}$		
		0	-1	0	$\frac{1}{2}$		
15	$\{2_{101}\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	0	0	1	$\frac{1}{4}$	1	1
		0	-1	0	$\frac{1}{2}$		
		1	0	0	$\frac{1}{4}$		
16	$\{2_{-101}\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	0	0	-1	$\frac{1}{2}$	1	1
		0	-1	0	$\frac{1}{2}$		
		-1	0	0	$\frac{1}{2}$		
17	$\{3^{+}_{111}\|0\}$	0	0	1	0	1	1
		1	0	0	0		
		0	1	0	0		
18	$\{3^{-}_{111}\|0\}$	0	1	0	0	1	1
		0	0	1	0		
		1	0	0	0		
19	$\{3^{-}_{1-1-1}\|\frac{1}{4}0\frac{1}{4}\}$	0	-1	0	$\frac{1}{4}$	1	1
		0	0	1	0		
		-1	0	0	$\frac{1}{4}$		
20	$\{3^{+}_{1-1-1}\|\frac{1}{4}\frac{1}{4}0\}$	0	0	-1	$\frac{1}{4}$	1	1
		-1	0	0	$\frac{1}{4}$		
		0	1	0	0		
21	$\{3^{-}_{-11-1}\|\frac{1}{4}\frac{1}{4}0\}$	0	-1	0	$\frac{1}{4}$	1	1
		0	0	-1	$\frac{1}{4}$		
		1	0	0	0		
22	$\{3^{+}_{-11-1}\|0\frac{1}{4}\frac{1}{4}\}$	0	0	1	0	1	1
		-1	0	0	$\frac{1}{4}$		
		0	-1	0	$\frac{1}{4}$		
23	$\{3^{-}_{-1-11}\|0\frac{1}{4}\frac{1}{4}\}$	0	1	0	0	1	1
		0	0	-1	$\frac{1}{4}$		
		-1	0	0	$\frac{1}{4}$		
24	$\{3^{+}_{-1-11}\|\frac{1}{4}0\frac{1}{4}\}$	0	0	-1	$\frac{1}{4}$	1	1
		1	0	0	0		
		0	-1	0	$\frac{1}{4}$		
25	$\{-1\|0\}$	-1	0	0	0	-1	1
		0	-1	0	0		
		0	0	-1	0		
26	$\{-4^{+}_{100}\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	-1	0	0	$\frac{1}{4}$	-1	1
		0	0	1	$\frac{1}{2}$		
		0	-1	0	$\frac{1}{4}$		
27	$\{-4^{-}_{100}\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	-1	0	0	$\frac{1}{4}$	-1	1
		0	0	-1	$\frac{1}{4}$		
		0	1	0	$\frac{1}{2}$		

Table 1

No.	tag	matrix (polar)				det	TR
28	$\{-4^+_{010}\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
29	$\{-4^-_{010}\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	1
30	$\{-4^+_{001}\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$				-1	1
31	$\{-4^-_{001}\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$				-1	1
32	$\{m_{100}\|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	1
33	$\{m_{010}\|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	1
34	$\{m_{001}\|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				-1	1
35	$\{m_{110}\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	1
36	$\{m_{1-10}\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	1
37	$\{m_{011}\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	1
38	$\{m_{01-1}\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
39	$\{m_{101}\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	1
40	$\{m_{-101}\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
41	$\{-3^+_{111}\|0\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 \end{bmatrix}$				-1	1

continued ...

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Table 1

No.	tag	matrix (polar)	det	TR
42	$\{-3^-_{111}\|0\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 \end{bmatrix}$	-1	1
43	$\{-3^-_{1-1-1}\|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
44	$\{-3^+_{1-1-1}\|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$	-1	1
45	$\{-3^-_{-11-1}\|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$	-1	1
46	$\{-3^+_{-11-1}\|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
47	$\{-3^-_{-1-11}\|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
48	$\{-3^+_{-1-11}\|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ -1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
49	$\{1\|0\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$	1	1
50	$\{4^+_{100}\|\frac{1}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
51	$\{4^-_{100}\|\frac{1}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$	1	1
52	$\{4^+_{010}\|\frac{1}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$	1	1
53	$\{4^-_{010}\|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
54	$\{4^+_{001}\|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	1	1
55	$\{4^-_{001}\|\frac{1}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	1	1

Table 1

No.	tag	matrix (polar)	det	TR
56	$\{2_{100}\|0\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	1	1
57	$\{2_{010}\|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	1	1
58	$\{2_{001}\|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$	1	1
59	$\{2_{110}\|\frac{1}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$	1	1
60	$\{2_{1-10}\|\frac{1}{2}00\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 \end{bmatrix}$	1	1
61	$\{2_{011}\|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
62	$\{2_{01-1}\|\frac{1}{2}00\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 \end{bmatrix}$	1	1
63	$\{2_{101}\|\frac{1}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
64	$\{2_{-101}\|\frac{1}{2}00\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 \end{bmatrix}$	1	1
65	$\{3^{+}_{111}\|0\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
66	$\{3^{-}_{111}\|0\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
67	$\{3^{-}_{1-1-1}\|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
68	$\{3^{+}_{1-1-1}\|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
69	$\{3^{-}_{-11-1}\|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	1

Table 1

No.	tag	matrix (polar)				det	TR
70	$\{3^+_{-11-1}|0\frac{3}{4}\frac{3}{4}\}$	0	0	1	0	1	1
		-1	0	0	$\frac{3}{4}$		
		0	-1	0	$\frac{3}{4}$		
71	$\{3^-_{-1-11}|0\frac{3}{4}\frac{3}{4}\}$	0	1	0	0	1	1
		0	0	-1	$\frac{3}{4}$		
		-1	0	0	$\frac{3}{4}$		
72	$\{3^+_{-1-11}|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	0	0	-1	$\frac{1}{4}$	1	1
		1	0	0	$\frac{1}{2}$		
		0	-1	0	$\frac{3}{4}$		
73	$\{-1|0\frac{1}{2}\frac{1}{2}\}$	-1	0	0	0	-1	1
		0	-1	0	$\frac{1}{2}$		
		0	0	-1	$\frac{1}{2}$		
74	$\{-4^+_{100}|\frac{1}{4}0\frac{3}{4}\}$	-1	0	0	$\frac{1}{4}$	-1	1
		0	0	1	0		
		0	-1	0	$\frac{3}{4}$		
75	$\{-4^-_{100}|\frac{1}{4}\frac{3}{4}0\}$	-1	0	0	$\frac{1}{4}$	-1	1
		0	0	-1	$\frac{3}{4}$		
		0	1	0	0		
76	$\{-4^+_{010}|\frac{1}{4}\frac{3}{4}0\}$	0	0	-1	$\frac{1}{4}$	-1	1
		0	-1	0	$\frac{3}{4}$		
		1	0	0	0		
77	$\{-4^-_{010}|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	0	0	1	$\frac{1}{2}$	-1	1
		0	-1	0	$\frac{3}{4}$		
		-1	0	0	$\frac{3}{4}$		
78	$\{-4^+_{001}|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	0	1	0	$\frac{1}{2}$	-1	1
		-1	0	0	$\frac{3}{4}$		
		0	0	-1	$\frac{3}{4}$		
79	$\{-4^-_{001}|\frac{1}{4}0\frac{3}{4}\}$	0	-1	0	$\frac{1}{4}$	-1	1
		1	0	0	0		
		0	0	-1	$\frac{3}{4}$		
80	$\{m_{100}|0\frac{3}{4}\frac{3}{4}\}$	-1	0	0	0	-1	1
		0	1	0	$\frac{3}{4}$		
		0	0	1	$\frac{3}{4}$		
81	$\{m_{010}|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	1	0	0	$\frac{1}{4}$	-1	1
		0	-1	0	$\frac{1}{2}$		
		0	0	1	$\frac{3}{4}$		
82	$\{m_{001}|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	1	0	0	$\frac{1}{4}$	-1	1
		0	1	0	$\frac{3}{4}$		
		0	0	-1	$\frac{1}{2}$		
83	$\{m_{110}|\frac{1}{4}\frac{3}{4}0\}$	0	-1	0	$\frac{1}{4}$	-1	1
		-1	0	0	$\frac{3}{4}$		
		0	0	1	0		

Table 1

No.	tag	matrix (polar)				det	TR
84	$\{m_{1-10}\|\frac{1}{2}00\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$				-1	1
85	$\{m_{011}\|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$				-1	1
86	$\{m_{01-1}\|\frac{1}{2}00\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$				-1	1
87	$\{m_{101}\|\frac{1}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$				-1	1
88	$\{m_{-101}\|\frac{1}{2}00\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix}$				-1	1
89	$\{-3^{+}_{111}\|0\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
90	$\{-3^{-}_{111}\|0\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
91	$\{-3^{-}_{1-1-1}\|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$				-1	1
92	$\{-3^{+}_{1-1-1}\|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
93	$\{-3^{-}_{-11-1}\|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
94	$\{-3^{+}_{-11-1}\|0\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$				-1	1
95	$\{-3^{-}_{-1-11}\|0\frac{3}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$				-1	1
96	$\{-3^{+}_{-1-11}\|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$				-1	1
97	$\{1\|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				1	1

Table 1

No.	tag	matrix (polar)				det	TR
98	$\{4^+_{100}\|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$				1	1
99	$\{4^-_{100}\|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$				1	1
100	$\{4^+_{010}\|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$				1	1
101	$\{4^-_{010}\|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$				1	1
102	$\{4^+_{001}\|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$				1	1
103	$\{4^-_{001}\|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$				1	1
104	$\{2_{100}\|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$				1	1
105	$\{2_{010}\|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$				1	1
106	$\{2_{001}\|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				1	1
107	$\{2_{110}\|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				1	1
108	$\{2_{1-10}\|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				1	1
109	$\{2_{011}\|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$				1	1
110	$\{2_{01-1}\|0\frac{1}{2}0\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \end{bmatrix}$				1	1
111	$\{2_{101}\|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$				1	1

continued ...

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Table 1

No.	tag	matrix (polar)	det	TR
112	$\{2_{-101}\|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \end{bmatrix}$	1	1
113	$\{3^{+}_{111}\|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
114	$\{3^{-}_{111}\|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
115	$\{3^{-}_{1-1-1}\|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
116	$\{3^{+}_{1-1-1}\|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
117	$\{3^{-}_{-11-1}\|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
118	$\{3^{+}_{-11-1}\|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
119	$\{3^{-}_{-1-11}\|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
120	$\{3^{+}_{-1-11}\|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	1	1
121	$\{-1\|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	-1	1
122	$\{-4^{+}_{100}\|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	-1	1
123	$\{-4^{-}_{100}\|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	-1	1
124	$\{-4^{+}_{010}\|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	-1	1
125	$\{-4^{-}_{010}\|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	-1	1

Table 1

No.	tag	matrix (polar)	det	TR
126	$\{-4^+_{001}\|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	−1	1
127	$\{-4^-_{001}\|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	−1	1
128	$\{m_{100}\|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	−1	1
129	$\{m_{010}\|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	−1	1
130	$\{m_{001}\|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	−1	1
131	$\{m_{110}\|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	−1	1
132	$\{m_{1-10}\|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	−1	1
133	$\{m_{011}\|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	−1	1
134	$\{m_{01-1}\|0\frac{1}{2}0\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	−1	1
135	$\{m_{101}\|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	−1	1
136	$\{m_{-101}\|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	−1	1
137	$\{-3^+_{111}\|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	−1	1
138	$\{-3^-_{111}\|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	−1	1
139	$\{-3^-_{1-1-1}\|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	−1	1

continued ...

Table 1

No.	tag	matrix (polar)				det	TR
140	$\{-3^{+}_{1-1-1}|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	0	0	1	$\frac{3}{4}$	-1	1
		1	0	0	$\frac{1}{4}$		
		0	-1	0	$\frac{1}{2}$		
141	$\{-3^{-}_{-11-1}|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	0	1	0	$\frac{3}{4}$	-1	1
		0	0	1	$\frac{1}{4}$		
		-1	0	0	$\frac{1}{2}$		
142	$\{-3^{+}_{-11-1}|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	0	0	-1	$\frac{1}{2}$	-1	1
		1	0	0	$\frac{1}{4}$		
		0	1	0	$\frac{3}{4}$		
143	$\{-3^{-}_{-1-11}|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	0	-1	0	$\frac{1}{2}$	-1	1
		0	0	1	$\frac{1}{4}$		
		1	0	0	$\frac{3}{4}$		
144	$\{-3^{+}_{-1-11}|\frac{3}{4}0\frac{3}{4}\}$	0	0	1	$\frac{3}{4}$	-1	1
		-1	0	0	0		
		0	1	0	$\frac{3}{4}$		
145	$\{1|\frac{1}{2}\frac{1}{2}0\}$	1	0	0	$\frac{1}{2}$	1	1
		0	1	0	$\frac{1}{2}$		
		0	0	1	0		
146	$\{4^{+}_{100}|\frac{3}{4}0\frac{1}{4}\}$	1	0	0	$\frac{3}{4}$	1	1
		0	0	-1	0		
		0	1	0	$\frac{1}{4}$		
147	$\{4^{-}_{100}|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	1	0	0	$\frac{3}{4}$	1	1
		0	0	1	$\frac{3}{4}$		
		0	-1	0	$\frac{1}{2}$		
148	$\{4^{+}_{010}|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	0	0	1	$\frac{3}{4}$	1	1
		0	1	0	$\frac{3}{4}$		
		-1	0	0	$\frac{1}{2}$		
149	$\{4^{-}_{010}|0\frac{3}{4}\frac{1}{4}\}$	0	0	-1	0	1	1
		0	1	0	$\frac{3}{4}$		
		1	0	0	$\frac{1}{4}$		
150	$\{4^{+}_{001}|0\frac{3}{4}\frac{1}{4}\}$	0	-1	0	0	1	1
		1	0	0	$\frac{3}{4}$		
		0	0	1	$\frac{1}{4}$		
151	$\{4^{-}_{001}|\frac{3}{4}0\frac{1}{4}\}$	0	1	0	$\frac{3}{4}$	1	1
		-1	0	0	0		
		0	0	1	$\frac{1}{4}$		
152	$\{2_{100}|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	1	0	0	$\frac{1}{2}$	1	1
		0	-1	0	$\frac{3}{4}$		
		0	0	-1	$\frac{1}{4}$		
153	$\{2_{010}|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	-1	0	0	$\frac{3}{4}$	1	1
		0	1	0	$\frac{1}{2}$		
		0	0	-1	$\frac{1}{4}$		

continued ...

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Table 1

No.	tag	matrix (polar)	det	TR
154	$\{2_{001}\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	1
155	$\{2_{110}\|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	1
156	$\{2_{1-10}\|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	1
157	$\{2_{011}\|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	1
158	$\{2_{01-1}\|00\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
159	$\{2_{101}\|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	1
160	$\{2_{-101}\|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	1
161	$\{3^{+}_{111}\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	1	1
162	$\{3^{-}_{111}\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	1	1
163	$\{3^{-}_{1-1-1}\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	1
164	$\{3^{+}_{1-1-1}\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	1	1
165	$\{3^{-}_{-11-1}\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	1	1
166	$\{3^{+}_{-11-1}\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	1	1
167	$\{3^{-}_{-1-11}\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	1

continued ...

Table 1

No.	tag	matrix (polar)				det	TR
168	$\{3^{+}_{-1-11}\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$				1	1
169	$\{-1\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				-1	1
170	$\{-4^{+}_{100}\|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	1
171	$\{-4^{-}_{100}\|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
172	$\{-4^{+}_{010}\|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	1
173	$\{-4^{-}_{010}\|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	1
174	$\{-4^{+}_{001}\|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$				-1	1
175	$\{-4^{-}_{001}\|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$				-1	1
176	$\{m_{100}\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	1
177	$\{m_{010}\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	1
178	$\{m_{001}\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				-1	1
179	$\{m_{110}\|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	1
180	$\{m_{1-10}\|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	1
181	$\{m_{011}\|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	1

Table 1

No.	tag	matrix (polar)	det	TR
182	$\{m_{01-1}\|00\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	-1	1
183	$\{m_{101}\|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
184	$\{m_{-101}\|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	-1	1
185	$\{-3_{111}^{+}\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \end{bmatrix}$	-1	1
186	$\{-3_{111}^{-}\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \end{bmatrix}$	-1	1
187	$\{-3_{1-1-1}^{-}\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
188	$\{-3_{1-1-1}^{+}\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$	-1	1
189	$\{-3_{-11-1}^{-}\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{3}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$	-1	1
190	$\{-3_{-11-1}^{+}\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
191	$\{-3_{-1-11}^{-}\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
192	$\{-3_{-1-11}^{+}\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	-1	1
193	$\{1'\|0\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	-1
194	$\{4_{100}^{+}{}'\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
195	$\{4_{100}^{-}{}'\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1

continued ...

Table 1

No.	tag	matrix (polar)	det	TR
196	$\{4^+_{010}{}'\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
197	$\{4^-_{010}{}'\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
198	$\{4^+_{001}{}'\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$	1	-1
199	$\{4^-_{001}{}'\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$	1	-1
200	$\{2_{100}{}'\|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	1	-1
201	$\{2_{010}{}'\|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	1	-1
202	$\{2_{001}{}'\|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	-1
203	$\{2_{110}{}'\|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	-1
204	$\{2_{1-10}{}'\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	-1
205	$\{2_{011}{}'\|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
206	$\{2_{01-1}{}'\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
207	$\{2_{101}{}'\|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
208	$\{2_{-101}{}'\|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
209	$\{3^+_{111}{}'\|0\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & 0 \end{bmatrix}$	1	-1

continued …

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Table 1

No.	tag	matrix (polar)	det	TR
210	$\{3^-_{111}{}'|0\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix}$	1	-1
211	$\{3^-_{1-1-1}{}'|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
212	$\{3^+_{1-1-1}{}'|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	1	-1
213	$\{3^-_{-11-1}{}'|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{4} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	1	-1
214	$\{3^+_{-11-1}{}'|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
215	$\{3^-_{-1-11}{}'|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
216	$\{3^+_{-1-11}{}'|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
217	$\{-1'|0\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 \end{bmatrix}$	-1	-1
218	$\{-4^+_{100}{}'|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	-1	-1
219	$\{-4^-_{100}{}'|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	-1	-1
220	$\{-4^+_{010}{}'|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	-1	-1
221	$\{-4^-_{010}{}'|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	-1	-1
222	$\{-4^+_{001}{}'|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	-1	-1
223	$\{-4^-_{001}{}'|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	-1	-1

Table 1

No.	tag	matrix (polar)				det	TR
224	$\{m_{100}'|0\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	-1
225	$\{m_{010}'|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	-1
226	$\{m_{001}'|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				-1	-1
227	$\{m_{110}'|\frac{1}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	-1
228	$\{m_{1-10}'|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	-1
229	$\{m_{011}'|\frac{1}{2}\frac{1}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
230	$\{m_{01-1}'|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$				-1	-1
231	$\{m_{101}'|\frac{1}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
232	$\{m_{-101}'|\frac{1}{2}\frac{1}{2}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	-1
233	$\{-3_{111}^{+}{}'|0\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & 0 \end{bmatrix}$				-1	-1
234	$\{-3_{111}^{-}{}'|0\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & 0 \end{bmatrix}$				-1	-1
235	$\{-3_{1-1-1}^{-}{}'|\frac{1}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
236	$\{-3_{1-1-1}^{+}{}'|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$				-1	-1
237	$\{-3_{-11-1}^{-}{}'|\frac{1}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$				-1	-1

Table 1

No.	tag	matrix (polar)				det	TR
238	$\{-3^{+}_{-11-1}{}'|0\tfrac{1}{4}\tfrac{1}{4}\}$	0	0	-1	0	-1	-1
		1	0	0	$\tfrac{1}{4}$		
		0	1	0	$\tfrac{1}{4}$		
239	$\{-3^{-}_{-1-11}{}'|0\tfrac{1}{4}\tfrac{1}{4}\}$	0	-1	0	0	-1	-1
		0	0	1	$\tfrac{1}{4}$		
		1	0	0	$\tfrac{1}{4}$		
240	$\{-3^{+}_{-1-11}{}'|\tfrac{1}{4}0\tfrac{1}{4}\}$	0	0	1	$\tfrac{1}{4}$	-1	-1
		-1	0	0	0		
		0	1	0	$\tfrac{1}{4}$		
241	$\{1'|0\tfrac{1}{2}\tfrac{1}{2}\}$	1	0	0	0	1	-1
		0	1	0	$\tfrac{1}{2}$		
		0	0	1	$\tfrac{1}{2}$		
242	$\{4^{+}_{100}{}'|\tfrac{1}{4}0\tfrac{3}{4}\}$	1	0	0	$\tfrac{1}{4}$	1	-1
		0	0	-1	0		
		0	1	0	$\tfrac{3}{4}$		
243	$\{4^{-}_{100}{}'|\tfrac{1}{4}\tfrac{3}{4}0\}$	1	0	0	$\tfrac{1}{4}$	1	-1
		0	0	1	$\tfrac{3}{4}$		
		0	-1	0	0		
244	$\{4^{+}_{010}{}'|\tfrac{1}{4}\tfrac{3}{4}0\}$	0	0	1	$\tfrac{1}{4}$	1	-1
		0	1	0	$\tfrac{3}{4}$		
		-1	0	0	0		
245	$\{4^{-}_{010}{}'|\tfrac{1}{2}\tfrac{3}{4}\tfrac{3}{4}\}$	0	0	-1	$\tfrac{1}{2}$	1	-1
		0	1	0	$\tfrac{3}{4}$		
		1	0	0	$\tfrac{3}{4}$		
246	$\{4^{+}_{001}{}'|\tfrac{1}{2}\tfrac{3}{4}\tfrac{3}{4}\}$	0	-1	0	$\tfrac{1}{2}$	1	-1
		1	0	0	$\tfrac{3}{4}$		
		0	0	1	$\tfrac{3}{4}$		
247	$\{4^{-}_{001}{}'|\tfrac{1}{4}0\tfrac{3}{4}\}$	0	1	0	$\tfrac{1}{4}$	1	-1
		-1	0	0	0		
		0	0	1	$\tfrac{3}{4}$		
248	$\{2_{100}{}'|0\tfrac{3}{4}\tfrac{3}{4}\}$	1	0	0	0	1	-1
		0	-1	0	$\tfrac{3}{4}$		
		0	0	-1	$\tfrac{3}{4}$		
249	$\{2_{010}{}'|\tfrac{1}{4}\tfrac{1}{2}\tfrac{3}{4}\}$	-1	0	0	$\tfrac{1}{4}$	1	-1
		0	1	0	$\tfrac{1}{2}$		
		0	0	-1	$\tfrac{3}{4}$		
250	$\{2_{001}{}'|\tfrac{1}{4}\tfrac{3}{4}\tfrac{1}{2}\}$	-1	0	0	$\tfrac{1}{4}$	1	-1
		0	-1	0	$\tfrac{3}{4}$		
		0	0	1	$\tfrac{1}{2}$		
251	$\{2_{110}{}'|\tfrac{1}{4}\tfrac{3}{4}0\}$	0	1	0	$\tfrac{1}{4}$	1	-1
		1	0	0	$\tfrac{3}{4}$		
		0	0	-1	0		

continued ...

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Table 1

No.	tag	matrix (polar)				det	TR
252	$\{2_{1-10}{}'|\frac{1}{2}00\}$	0	-1	0	$\frac{1}{2}$	1	-1
		-1	0	0	0		
		0	0	-1	0		
253	$\{2_{011}{}'|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	-1	0	0	$\frac{1}{2}$	1	-1
		0	0	1	$\frac{3}{4}$		
		0	1	0	$\frac{3}{4}$		
254	$\{2_{01-1}{}'|\frac{1}{2}00\}$	-1	0	0	$\frac{1}{2}$	1	-1
		0	0	-1	0		
		0	-1	0	0		
255	$\{2_{101}{}'|\frac{1}{4}0\frac{3}{4}\}$	0	0	1	$\frac{1}{4}$	1	-1
		0	-1	0	0		
		1	0	0	$\frac{3}{4}$		
256	$\{2_{-101}{}'|\frac{1}{2}00\}$	0	0	-1	$\frac{1}{2}$	1	-1
		0	-1	0	0		
		-1	0	0	0		
257	$\{3^{+}_{111}{}'|0\frac{1}{2}\frac{1}{2}\}$	0	0	1	0	1	-1
		1	0	0	$\frac{1}{2}$		
		0	1	0	$\frac{1}{2}$		
258	$\{3^{-}_{111}{}'|0\frac{1}{2}\frac{1}{2}\}$	0	1	0	0	1	-1
		0	0	1	$\frac{1}{2}$		
		1	0	0	$\frac{1}{2}$		
259	$\{3^{-}_{1-1-1}{}'|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	0	-1	0	$\frac{1}{4}$	1	-1
		0	0	1	$\frac{1}{2}$		
		-1	0	0	$\frac{3}{4}$		
260	$\{3^{+}_{1-1-1}{}'|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	0	0	-1	$\frac{1}{4}$	1	-1
		-1	0	0	$\frac{3}{4}$		
		0	1	0	$\frac{1}{2}$		
261	$\{3^{-}_{-11-1}{}'|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	0	-1	0	$\frac{1}{4}$	1	-1
		0	0	-1	$\frac{3}{4}$		
		1	0	0	$\frac{1}{2}$		
262	$\{3^{+}_{-11-1}{}'|0\frac{3}{4}\frac{3}{4}\}$	0	0	1	0	1	-1
		-1	0	0	$\frac{3}{4}$		
		0	-1	0	$\frac{3}{4}$		
263	$\{3^{-}_{-1-11}{}'|0\frac{3}{4}\frac{3}{4}\}$	0	1	0	0	1	-1
		0	0	-1	$\frac{3}{4}$		
		-1	0	0	$\frac{3}{4}$		
264	$\{3^{+}_{-1-11}{}'|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	0	0	-1	$\frac{1}{4}$	1	-1
		1	0	0	$\frac{1}{2}$		
		0	-1	0	$\frac{3}{4}$		
265	$\{-1'|0\frac{1}{2}\frac{1}{2}\}$	-1	0	0	0	-1	-1
		0	-1	0	$\frac{1}{2}$		
		0	0	-1	$\frac{1}{2}$		

continued …

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Table 1

No.	tag	matrix (polar)				det	TR
266	$\{-4^+_{100}'|\frac{1}{4}0\frac{3}{4}\}$	-1	0	0	$\frac{1}{4}$	-1	-1
		0	0	1	0		
		0	-1	0	$\frac{3}{4}$		
267	$\{-4^-_{100}'|\frac{1}{4}\frac{3}{4}0\}$	-1	0	0	$\frac{1}{4}$	-1	-1
		0	0	-1	$\frac{3}{4}$		
		0	1	0	0		
268	$\{-4^+_{010}'|\frac{1}{4}\frac{3}{4}0\}$	0	0	-1	$\frac{1}{4}$	-1	-1
		0	-1	0	$\frac{3}{4}$		
		1	0	0	0		
269	$\{-4^-_{010}'|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	0	0	1	$\frac{1}{2}$	-1	-1
		0	-1	0	$\frac{3}{4}$		
		-1	0	0	$\frac{3}{4}$		
270	$\{-4^+_{001}'|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	0	1	0	$\frac{1}{2}$	-1	-1
		-1	0	0	$\frac{3}{4}$		
		0	0	-1	$\frac{3}{4}$		
271	$\{-4^-_{001}'|\frac{1}{4}0\frac{3}{4}\}$	0	-1	0	$\frac{1}{4}$	-1	-1
		1	0	0	0		
		0	0	-1	$\frac{3}{4}$		
272	$\{m_{100}'|0\frac{3}{4}\frac{3}{4}\}$	-1	0	0	0	-1	-1
		0	1	0	$\frac{3}{4}$		
		0	0	1	$\frac{3}{4}$		
273	$\{m_{010}'|\frac{1}{4}\frac{1}{2}\frac{3}{4}\}$	1	0	0	$\frac{1}{4}$	-1	-1
		0	-1	0	$\frac{1}{2}$		
		0	0	1	$\frac{3}{4}$		
274	$\{m_{001}'|\frac{1}{4}\frac{3}{4}\frac{1}{2}\}$	1	0	0	$\frac{1}{4}$	-1	-1
		0	1	0	$\frac{3}{4}$		
		0	0	-1	$\frac{1}{2}$		
275	$\{m_{110}'|\frac{1}{4}\frac{3}{4}0\}$	0	-1	0	$\frac{1}{4}$	-1	-1
		-1	0	0	$\frac{3}{4}$		
		0	0	1	0		
276	$\{m_{1-10}'|\frac{1}{2}00\}$	0	1	0	$\frac{1}{2}$	-1	-1
		1	0	0	0		
		0	0	1	0		
277	$\{m_{011}'|\frac{1}{2}\frac{3}{4}\frac{3}{4}\}$	1	0	0	$\frac{1}{2}$	-1	-1
		0	0	-1	$\frac{3}{4}$		
		0	-1	0	$\frac{3}{4}$		
278	$\{m_{01-1}'|\frac{1}{2}00\}$	1	0	0	$\frac{1}{2}$	-1	-1
		0	0	1	0		
		0	1	0	0		
279	$\{m_{101}'|\frac{1}{4}0\frac{3}{4}\}$	0	0	-1	$\frac{1}{4}$	-1	-1
		0	1	0	0		
		-1	0	0	$\frac{3}{4}$		

continued …

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Table 1

No.	tag	matrix (polar)				det	TR
280	$\{m_{-101}'|\tfrac{1}{2}00\}$	$\begin{bmatrix} 0 & 0 & 1 & \tfrac{1}{2} \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \end{bmatrix}$				-1	-1
281	$\{-3_{111}^{+}{}'|0\tfrac{1}{2}\tfrac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & \tfrac{1}{2} \\ 0 & -1 & 0 & \tfrac{1}{2} \end{bmatrix}$				-1	-1
282	$\{-3_{111}^{-}{}'|0\tfrac{1}{2}\tfrac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & \tfrac{1}{2} \\ -1 & 0 & 0 & \tfrac{1}{2} \end{bmatrix}$				-1	-1
283	$\{-3_{1-1-1}^{-}{}'|\tfrac{1}{4}\tfrac{1}{2}\tfrac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \tfrac{1}{4} \\ 0 & 0 & -1 & \tfrac{1}{2} \\ 1 & 0 & 0 & \tfrac{3}{4} \end{bmatrix}$				-1	-1
284	$\{-3_{1-1-1}^{+}{}'|\tfrac{1}{4}\tfrac{3}{4}\tfrac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \tfrac{1}{4} \\ 1 & 0 & 0 & \tfrac{3}{4} \\ 0 & -1 & 0 & \tfrac{1}{2} \end{bmatrix}$				-1	-1
285	$\{-3_{-11-1}^{-}{}'|\tfrac{1}{4}\tfrac{3}{4}\tfrac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \tfrac{1}{4} \\ 0 & 0 & 1 & \tfrac{3}{4} \\ -1 & 0 & 0 & \tfrac{1}{2} \end{bmatrix}$				-1	-1
286	$\{-3_{-11-1}^{+}{}'|0\tfrac{3}{4}\tfrac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \tfrac{3}{4} \\ 0 & 1 & 0 & \tfrac{3}{4} \end{bmatrix}$				-1	-1
287	$\{-3_{-1-11}^{-}{}'|0\tfrac{3}{4}\tfrac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \tfrac{3}{4} \\ 1 & 0 & 0 & \tfrac{3}{4} \end{bmatrix}$				-1	-1
288	$\{-3_{-1-11}^{+}{}'|\tfrac{1}{4}\tfrac{1}{2}\tfrac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \tfrac{1}{4} \\ -1 & 0 & 0 & \tfrac{1}{2} \\ 0 & 1 & 0 & \tfrac{3}{4} \end{bmatrix}$				-1	-1
289	$\{1'|\tfrac{1}{2}0\tfrac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \tfrac{1}{2} \\ 0 & 1 & 0 & 0 \\ 0 & 0 & 1 & \tfrac{1}{2} \end{bmatrix}$				1	-1
290	$\{4_{100}^{+}{}'|\tfrac{3}{4}\tfrac{1}{2}\tfrac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \tfrac{3}{4} \\ 0 & 0 & -1 & \tfrac{1}{2} \\ 0 & 1 & 0 & \tfrac{3}{4} \end{bmatrix}$				1	-1
291	$\{4_{100}^{-}{}'|\tfrac{3}{4}\tfrac{1}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \tfrac{3}{4} \\ 0 & 0 & 1 & \tfrac{1}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$				1	-1
292	$\{4_{010}^{+}{}'|\tfrac{3}{4}\tfrac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \tfrac{3}{4} \\ 0 & 1 & 0 & \tfrac{1}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$				1	-1
293	$\{4_{010}^{-}{}'|0\tfrac{1}{4}\tfrac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & \tfrac{1}{4} \\ 1 & 0 & 0 & \tfrac{3}{4} \end{bmatrix}$				1	-1

Table 1

No.	tag	matrix (polar)	det	TR
294	$\{4^+_{001}{}'|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	1	-1
295	$\{4^-_{001}{}'|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	1	-1
296	$\{2_{100}{}'|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	1	-1
297	$\{2_{010}{}'|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & 0 \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	1	-1
298	$\{2_{001}{}'|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$	1	-1
299	$\{2_{110}{}'|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$	1	-1
300	$\{2_{1-10}{}'|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \end{bmatrix}$	1	-1
301	$\{2_{011}{}'|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$	1	-1
302	$\{2_{01-1}{}'|0\frac{1}{2}0\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \end{bmatrix}$	1	-1
303	$\{2_{101}{}'|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	-1
304	$\{2_{-101}{}'|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \end{bmatrix}$	1	-1
305	$\{3^+_{111}{}'|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
306	$\{3^-_{111}{}'|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
307	$\{3^-_{1-1-1}{}'|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & 0 \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	-1

continued …

Table 1

No.	tag	matrix (polar)	det	TR
308	$\{3^+_{1-1-1}{}'|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
309	$\{3^-_{-11-1}{}'|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
310	$\{3^+_{-11-1}{}'|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	1	-1
311	$\{3^-_{-1-11}{}'|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	1	-1
312	$\{3^+_{-1-11}{}'|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	1	-1
313	$\{-1'|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	-1	-1
314	$\{-4^+_{100}{}'|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
315	$\{-4^-_{100}{}'|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	-1	-1
316	$\{-4^+_{010}{}'|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	-1	-1
317	$\{-4^-_{010}{}'|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
318	$\{-4^+_{001}{}'|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	-1	-1
319	$\{-4^-_{001}{}'|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{3}{4} \end{bmatrix}$	-1	-1
320	$\{m_{100}{}'|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	-1	-1
321	$\{m_{010}{}'|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \\ 0 & 0 & 1 & \frac{3}{4} \end{bmatrix}$	-1	-1

Table 1

No.	tag	matrix (polar)	det	TR
322	$\{m_{001}'|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	-1	-1
323	$\{m_{110}'|\frac{3}{4}\frac{1}{4}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	-1	-1
324	$\{m_{1-10}'|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	-1	-1
325	$\{m_{011}'|0\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
326	$\{m_{01-1}'|0\frac{1}{2}0\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{2} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	-1	-1
327	$\{m_{101}'|\frac{3}{4}\frac{1}{2}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
328	$\{m_{-101}'|0\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	-1	-1
329	$\{-3_{111}^{+}'|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	-1	-1
330	$\{-3_{111}^{-}'|\frac{1}{2}0\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	-1	-1
331	$\{-3_{1-1-1}^{-}'|\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & 0 \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
332	$\{-3_{1-1-1}^{+}'|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	-1	-1
333	$\{-3_{-11-1}^{-}'|\frac{3}{4}\frac{1}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{4} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	-1	-1
334	$\{-3_{-11-1}^{+}'|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{4} \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
335	$\{-3_{-1-11}^{-}'|\frac{1}{2}\frac{1}{4}\frac{3}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \\ 1 & 0 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1

Table 1

No.	tag	matrix (polar)	det	TR
336	$\{-3^+_{-1-11}{}'\lvert\frac{3}{4}0\frac{3}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ -1 & 0 & 0 & 0 \\ 0 & 1 & 0 & \frac{3}{4} \end{bmatrix}$	-1	-1
337	$\{1'\lvert\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	-1
338	$\{4^+_{100}{}'\lvert\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
339	$\{4^-_{100}{}'\lvert\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
340	$\{4^+_{010}{}'\lvert\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	-1
341	$\{4^-_{010}{}'\lvert 0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & 1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1
342	$\{4^+_{001}{}'\lvert 0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$	1	-1
343	$\{4^-_{001}{}'\lvert\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$	1	-1
344	$\{2_{100}{}'\lvert\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	1	-1
345	$\{2_{010}{}'\lvert\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$	1	-1
346	$\{2_{001}{}'\lvert\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & 0 \end{bmatrix}$	1	-1
347	$\{2_{110}{}'\lvert\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	-1
348	$\{2_{1-10}{}'\lvert 00\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{2} \end{bmatrix}$	1	-1
349	$\{2_{011}{}'\lvert 0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$	1	-1

continued …

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Table 1

No.	tag	matrix (polar)	det	TR
350	$\{2_{01-1}'\|00\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & 0 \\ 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & \frac{1}{2} \end{bmatrix}$	1	−1
351	$\{2_{101}'\|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	−1
352	$\{2_{-101}'\|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & 0 \\ 0 & -1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$	1	−1
353	$\{3^{+}_{111}'\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	1	−1
354	$\{3^{-}_{111}'\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{2} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	1	−1
355	$\{3^{-}_{1-1-1}'\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	−1
356	$\{3^{+}_{1-1-1}'\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & 0 \end{bmatrix}$	1	−1
357	$\{3^{-}_{-11-1}'\|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & 0 \end{bmatrix}$	1	−1
358	$\{3^{+}_{-11-1}'\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	1	−1
359	$\{3^{-}_{-1-11}'\|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$	1	−1
360	$\{3^{+}_{-1-11}'\|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	1	−1
361	$\{-1'\|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & 0 \end{bmatrix}$	−1	−1
362	$\{-4^{+}_{100}'\|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$	−1	−1
363	$\{-4^{-}_{100}'\|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$	−1	−1

continued …

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Table 1

No.	tag	matrix (polar)				det	TR
364	$\{-4^+_{010}{}'|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	-1
365	$\{-4^-_{010}{}'|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & -1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
366	$\{-4^+_{001}{}'|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$				-1	-1
367	$\{-4^-_{001}{}'|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{1}{4} \end{bmatrix}$				-1	-1
368	$\{m_{100}{}'|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	-1
369	$\{m_{010}{}'|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{1}{4} \end{bmatrix}$				-1	-1
370	$\{m_{001}{}'|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & 0 \end{bmatrix}$				-1	-1
371	$\{m_{110}{}'|\frac{3}{4}\frac{3}{4}\frac{1}{2}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	-1
372	$\{m_{1-10}{}'|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & \frac{1}{2} \end{bmatrix}$				-1	-1
373	$\{m_{011}{}'|0\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & -1 & \frac{3}{4} \\ 0 & -1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
374	$\{m_{01-1}{}'|00\frac{1}{2}\}$	$\begin{bmatrix} 1 & 0 & 0 & 0 \\ 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & \frac{1}{2} \end{bmatrix}$				-1	-1
375	$\{m_{101}{}'|\frac{3}{4}0\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{3}{4} \\ 0 & 1 & 0 & 0 \\ -1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
376	$\{m_{-101}{}'|00\frac{1}{2}\}$	$\begin{bmatrix} 0 & 0 & 1 & 0 \\ 0 & 1 & 0 & 0 \\ 1 & 0 & 0 & \frac{1}{2} \end{bmatrix}$				-1	-1
377	$\{-3^+_{111}{}'|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & -1 & 0 & 0 \end{bmatrix}$				-1	-1

Table 1

No.	tag	matrix (polar)				det	TR
378	$\{-3^-_{111}{}'|\frac{1}{2}\frac{1}{2}0\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & -1 & \frac{1}{2} \\ -1 & 0 & 0 & 0 \end{bmatrix}$				-1	-1
379	$\{-3^-_{1-1-1}{}'|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & -1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
380	$\{-3^+_{1-1-1}{}'|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & -1 & 0 & 0 \end{bmatrix}$				-1	-1
381	$\{-3^-_{-11-1}{}'|\frac{3}{4}\frac{3}{4}0\}$	$\begin{bmatrix} 0 & 1 & 0 & \frac{3}{4} \\ 0 & 0 & 1 & \frac{3}{4} \\ -1 & 0 & 0 & 0 \end{bmatrix}$				-1	-1
382	$\{-3^+_{-11-1}{}'|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & -1 & \frac{1}{2} \\ 1 & 0 & 0 & \frac{3}{4} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
383	$\{-3^-_{-1-11}{}'|\frac{1}{2}\frac{3}{4}\frac{1}{4}\}$	$\begin{bmatrix} 0 & -1 & 0 & \frac{1}{2} \\ 0 & 0 & 1 & \frac{3}{4} \\ 1 & 0 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1
384	$\{-3^+_{-1-11}{}'|\frac{3}{4}\frac{1}{2}\frac{1}{4}\}$	$\begin{bmatrix} 0 & 0 & 1 & \frac{3}{4} \\ -1 & 0 & 0 & \frac{1}{2} \\ 0 & 1 & 0 & \frac{1}{4} \end{bmatrix}$				-1	-1