

Cubic

 $m\bar{3}m$ O_h^7 $Fd\bar{3}m$ Patterson symmetry $Fm\bar{3}m$ $F4_1/d\bar{3}2/m$

No. 227

ORIGIN CHOICE 1

Origin at $\bar{4}3m$, at $-\frac{1}{8}, -\frac{1}{8}, -\frac{1}{8}$ from centre ($\bar{3}m$)**Positions**Multiplicity,
Wyckoff letter,
Site symmetry,
Coordinates**Patterson peaks (U, V, W (Multiplicity))**

192 i 1	x,y,z; -x,1/2-y,1/2+z; etc.		
	0, 0, 0 (192)	2x, 1/2+2y, 1/2 (8)	1/2+2x, 1/2, 2z (8)
	1/2, 2y, 1/2+2z (8)	x-z, -x+y, -y+z (8)	1/2+x-z, x+y, 1/2+y+z (8)
	x+z, 1/2+x+y, 1/2-y+z (8)	1/2+x+z, 1/2-x+y, y+z (8)	1/4+x-y, 3/4-x+y, 1/4+2z (8)
	3/4+x+y, 3/4+x+y, 3/4+2z (8)	3/4+x-y, 1/4+x+y, 1/4 (8)	1/4, 3/4+y-z, 1/4+y+z (8)
	1/4+2x, 1/4+y-z, 3/4-y+z (8)	3/4+2x, 3/4+y+z, 3/4+y+z (8)	1/4+x-z, 3/4, 1/4+x+z (8)
	3/4+x-z, 1/4+2y, 1/4-x+z (8)	3/4+x+z, 3/4+2y, 3/4+x+z (8)	3/4+2x, 3/4+2y, 3/4+2z (4)
	3/4, 1/4, 1/4+2z (16)	1/4, 1/4+2y, 3/4 (16)	1/4+2x, 3/4, 1/4 (16)
	3/4+x+z, 3/4+x+y, 3/4+y+z (8)	1/4+x+z, 3/4-x+y, 1/4-y+z (8)	3/4+x-z, 1/4-x+y, 1/4+y+z (8)
	1/4+x-z, 1/4+x+y, 3/4-y+z (8)	1/2+x+y, x+y, 1/2 (16)	x-y, -x+y, 0 (16)
	x+y, 1/2-x+y, 1/2+2z (8)	1/2+2x, y+z, 1/2-y+z (8)	1/2, 1/2+y+z, y+z (16)
	0, y-z, -y+z (16)	1/2+x+z, 2y, 1/2-x+z (8)	x+z, 1/2, 1/2+x+z (16)
	x-z, 0, -x+z (16)		
96 h . . 2	1/8,y,1/4-y; 7/8,1/2-y,3/4-y; etc.		
	0, 0, 0 (96)	1/4, 1/2+2y, 1/2 (8)	1/2, 2y, -2y (8)
	7/8+y, 7/8+y, 1/4-2y (8)	3/8+y, 1/8+y, 3/4 (8)	3/8-y, 5/8+y, 3/4-2y (8)
	0, 3/4+2y, 1/4-2y (8)	3/4, 1/4, 3/4-2y (16)	1/2, 3/4, 1/4 (16)
	1/8-y, 7/8+y, 0 (16)	5/8-y, 5/8+y, 1/2-2y (8)	5/8+y, 1/8+y, 1/2 (16)
96 g . . m	x,x,z; -x,1/2-x,1/2+z; etc.		
	0, 0, 0 (96)	2x, 1/2+2x, 1/2 (8)	1/2+2x, 1/2, 2z (8)
	x-z, 0, -x+z (16)	1/2+x-z, 2x, 1/2+x+z (8)	1/2+x+z, 1/2, x+z (16)
	1/4, 3/4, 1/4+2z (8)	3/4+2x, 3/4+2x, 3/4+2z (4)	3/4, 1/4+2x, 1/4 (16)
	1/4, 3/4+x-z, 1/4+x+z (8)	1/4+2x, 1/4+x-z, 3/4-x+z (8)	3/4+2x, 3/4+x+z, 3/4+x+z (8)
48 f 2 . m m	x,0,0; -x,1/2,1/2; etc.		
	0, 0, 0 (48)	2x, 1/2, 1/2 (8)	x, -x, 0 (16)
	1/4+x, 3/4-x, 1/4 (8)	1/4, 3/4, 1/4 (24)	1/4+2x, 1/4, 3/4 (4)
32 e . 3 m	x,x,x; -x,1/2-x,1/2+x; etc.		
	0, 0, 0 (32)	2x, 1/2+2x, 1/2 (8)	1/4, 3/4, 1/4+2x (8)
	3/4+2x, 3/4+2x, 3/4+2x (4)		
16 d . $\bar{3}m$	5/8,5/8,5/8; 3/8,7/8,1/8; etc.		
	0, 0, 0 (16)	1/4, 3/4, 1/2 (8)	
16 c . $\bar{3}m$	1/8,1/8,1/8; 7/8,3/8,5/8; etc.		
	0, 0, 0 (16)	1/4, 3/4, 1/2 (8)	
8 b $\bar{4}3m$	1/2,1/2,1/2; 1/4,3/4,1/4; etc.		
	0, 0, 0 (8)	1/4, 3/4, 1/4 (4)	
8 a $\bar{4}3m$	0,0,0; 3/4,1/4,3/4; etc.		

ORIGIN CHOICE 1

 $0, 0, 0$ (8) $1/4, 3/4, 1/4$ (4)

Vectors between two sets of unique atoms

Wyckoff letters

Wyckoff letters

i, i

$x1-x2, y1-y2, z1-z2$ (8)
 $x1+x2, 1/2+y1+y2, 1/2+z1-z2$ (8)
 $1/2+x1+x2, 1/2+y1-y2, z1+z2$ (8)
 $1/2+x1-x2, y1+y2, 1/2+z1+z2$ (8)
 $x1-z2, y1-x2, z1-y2$ (8)
 $1/2+x1-z2, y1+x2, 1/2+z1+y2$ (8)
 $x1+z2, 1/2+y1+x2, 1/2+z1-y2$ (8)
 $1/2+x1+z2, 1/2+y1-x2, z1+y2$ (8)
 $x1-y2, y1-z2, z1-x2$ (8)
 $1/2+x1+y2, 1/2+y1-z2, z1+x2$ (8)
 $1/2+x1-y2, y1+z2, 1/2+z1+x2$ (8)
 $x1+y2, 1/2+y1+z2, 1/2+z1-x2$ (8)
 $1/4+x1-y2, 3/4+y1-x2, 1/4+z1+z2$ (4)
 $3/4+x1+y2, 3/4+y1+x2, 3/4+z1+z2$ (4)
 $3/4+x1-y2, 1/4+y1+x2, 1/4+z1-z2$ (4)
 $1/4+x1+y2, 1/4+y1-x2, 3/4+z1-z2$ (4)
 $1/4+x1-x2, 3/4+y1-z2, 1/4+z1+y2$ (4)
 $1/4+x1+x2, 1/4+y1-z2, 3/4+z1-y2$ (4)
 $3/4+x1+x2, 3/4+y1+z2, 3/4+z1+y2$ (4)
 $3/4+x1-x2, 1/4+y1+z2, 1/4+z1-y2$ (4)
 $1/4+x1-z2, 3/4+y1-y2, 1/4+z1+x2$ (4)
 $3/4+x1-z2, 1/4+y1+y2, 1/4+z1-x2$ (4)
 $1/4+x1+z2, 1/4+y1-y2, 3/4+z1-x2$ (4)
 $3/4+x1+z2, 3/4+y1+y2, 3/4+z1+x2$ (4)
 $3/4+x1+x2, 3/4+y1+y2, 3/4+z1+z2$ (4)
 $3/4+x1-x2, 1/4+y1-y2, 1/4+z1+z2$ (4)
 $1/4+x1-x2, 1/4+y1+y2, 3/4+z1-z2$ (4)
 $1/4+x1+x2, 3/4+y1-y2, 1/4+z1-z2$ (4)
 $3/4+x1+z2, 3/4+y1+x2, 3/4+z1+y2$ (4)
 $1/4+x1+z2, 3/4+y1-x2, 1/4+z1-y2$ (4)
 $3/4+x1-z2, 1/4+y1-x2, 1/4+z1+y2$ (4)
 $1/4+x1-z2, 1/4+y1+x2, 3/4+z1-y2$ (4)
 $3/4+x1+y2, 3/4+y1+z2, 3/4+z1+x2$ (4)
 $1/4+x1-y2, 1/4+y1+z2, 3/4+z1-x2$ (4)
 $1/4+x1+y2, 3/4+y1-z2, 1/4+z1-x2$ (4)
 $3/4+x1-y2, 1/4+y1-z2, 1/4+z1+x2$ (4)
 $1/2+x1+y2, y1+x2, 1/2+z1-z2$ (8)
 $x1-y2, y1-x2, z1-z2$ (8)
 $x1+y2, 1/2+y1-x2, 1/2+z1+z2$ (8)
 $1/2+x1-y2, 1/2+y1+x2, z1+z2$ (8)
 $1/2+x1+x2, y1+z2, 1/2+z1-y2$ (8)
 $1/2+x1-x2, 1/2+y1+z2, z1+y2$ (8)
 $x1-x2, y1-z2, z1-y2$ (8)

$x1+x2, 1/2+y1-z2, 1/2+z1+y2$ (8)
 $1/2+x1+z2, y1+y2, 1/2+z1-x2$ (8)
 $x1+z2, 1/2+y1-y2, 1/2+z1+x2$ (8)
 $1/2+x1-z2, 1/2+y1+y2, z1+x2$ (8)
 $x1-z2, y1-y2, z1-x2$ (8)
 $1/4-x1+y2, 3/4-y1+x2, 1/4-z1-z2$ (4)
 $3/4-x1-y2, 3/4-y1-x2, 3/4-z1-z2$ (4)
 $3/4-x1+y2, 1/4-y1-x2, 1/4-z1+z2$ (4)
 $1/4-x1-y2, 1/4-y1+x2, 3/4-z1+z2$ (4)
 $1/4-x1+x2, 3/4-y1+z2, 1/4-z1-y2$ (4)
 $1/4-x1-x2, 1/4-y1+z2, 3/4-z1+y2$ (4)
 $3/4-x1-x2, 3/4-y1-z2, 3/4-z1-y2$ (4)
 $3/4-x1+x2, 1/4-y1-z2, 1/4-z1+y2$ (4)
 $1/4-x1+z2, 3/4-y1+y2, 1/4-z1-x2$ (4)
 $3/4-x1+z2, 1/4-y1-y2, 1/4-z1+x2$ (4)
 $1/4-x1-z2, 1/4-y1+y2, 3/4-z1+x2$ (4)
 $3/4-x1-z2, 3/4-y1-y2, 3/4-z1-x2$ (4)
 $3/4-x1-x2, 3/4-y1-y2, 3/4-z1-z2$ (4)
 $3/4-x1+x2, 1/4-y1+y2, 1/4-z1-z2$ (4)
 $1/4-x1+x2, 1/4-y1-y2, 3/4-z1+z2$ (4)
 $1/4-x1-x2, 3/4-y1+y2, 1/4-z1+z2$ (4)
 $3/4-x1-z2, 3/4-y1-x2, 3/4-z1-y2$ (4)
 $1/4-x1-z2, 3/4-y1+x2, 1/4-z1+y2$ (4)
 $3/4-x1+z2, 1/4-y1+x2, 1/4-z1-y2$ (4)
 $1/4-x1+z2, 1/4-y1-x2, 3/4-z1+y2$ (4)
 $3/4-x1-y2, 3/4-y1-z2, 3/4-z1-x2$ (4)
 $1/4-x1+y2, 1/4-y1-z2, 3/4-z1+x2$ (4)
 $1/4-x1-y2, 3/4-y1+z2, 1/4-z1+x2$ (4)
 $3/4-x1+y2, 1/4-y1+z2, 1/4-z1-x2$ (4)
i, h
 $7/8+x1, y1-y2, 3/4+z1+y2$ (4)
 $1/8+x1, 1/2+y1+y2, 1/4+z1+y2$ (4)
 $5/8+x1, 1/2+y1-y2, 1/4+z1-y2$ (4)
 $3/8+x1, y1+y2, 3/4+z1-y2$ (4)
 $3/4+x1+y2, 7/8+y1, z1-y2$ (4)
 $1/4+x1+y2, 1/8+y1, 1/2+z1+y2$ (4)
 $1/4+x1-y2, 5/8+y1, 1/2+z1-y2$ (4)
 $3/4+x1-y2, 3/8+y1, z1+y2$ (4)
 $x1-y2, 3/4+y1+y2, 7/8+z1$ (4)
 $1/2+x1+y2, 1/4+y1+y2, 1/8+z1$ (4)
 $1/2+x1-y2, 1/4+y1-y2, 5/8+z1$ (4)
 $x1+y2, 3/4+y1-y2, 3/8+z1$ (4)
 $7/8+x1, 3/4+y1+y2, z1-y2$ (4)
 $5/8+x1, 1/4+y1-y2, 1/2+z1-y2$ (4)

ORIGIN CHOICE 1

- $1/8+xl, 1/4+y1+y2, 1/2+z1+y2$ (4)
 $3/8+xl, 3/4+y1-y2, z1+y2$ (4)
 $x1-y2, 7/8+y1, 3/4+z1+y2$ (4)
 $1/2+x1-y2, 5/8+y1, 1/4+z1-y2$ (4)
 $1/2+x1+y2, 1/8+y1, 1/4+z1+y2$ (4)
 $x1+y2, 3/8+y1, 3/4+z1-y2$ (4)
 $3/4+x1+y2, y1-y2, 7/8+z1$ (4)
 $1/4+x1-y2, 1/2+y1-y2, 5/8+z1$ (4)
 $1/4+x1+y2, 1/2+y1+y2, 1/8+z1$ (4)
 $3/4+x1-y2, y1+y2, 3/8+z1$ (4)
 $7/8-x1, -y1+y2, 3/4-z1-y2$ (4)
 $1/8-x1, 1/2-y1-y2, 1/4-z1-y2$ (4)
 $5/8-x1, 1/2-y1+y2, 1/4-z1+y2$ (4)
 $3/8-x1, -y1-y2, 3/4-z1+y2$ (4)
 $3/4-x1-y2, 7/8-y1, -z1+y2$ (4)
 $1/4-x1-y2, 1/8-y1, 1/2-z1-y2$ (4)
 $1/4-x1+y2, 5/8-y1, 1/2-z1+y2$ (4)
 $3/4-x1+y2, 3/8-y1, -z1-y2$ (4)
 $-x1+y2, 3/4-y1-y2, 7/8-z1$ (4)
 $1/2-x1-y2, 1/4-y1-y2, 1/8-z1$ (4)
 $1/2-x1+y2, 1/4-y1+y2, 5/8-z1$ (4)
 $-x1-y2, 3/4-y1+y2, 3/8-z1$ (4)
 $7/8-x1, 3/4-y1-y2, -z1+y2$ (4)
 $5/8-x1, 1/4-y1+y2, 1/2-z1+y2$ (4)
 $1/8-x1, 1/4-y1-y2, 1/2-z1-y2$ (4)
 $3/8-x1, 3/4-y1+y2, -z1-y2$ (4)
 $-x1+y2, 7/8-y1, 3/4-z1-y2$ (4)
 $1/2-x1+y2, 5/8-y1, 1/4-z1+y2$ (4)
 $1/2-x1-y2, 1/8-y1, 1/4-z1-y2$ (4)
 $-x1-y2, 3/8-y1, 3/4-z1+y2$ (4)
 $3/4-x1-y2, -y1+y2, 7/8-z1$ (4)
 $1/4-x1+y2, 1/2-y1+y2, 5/8-z1$ (4)
 $1/4-x1-y2, 1/2-y1-y2, 1/8-z1$ (4)
 $3/4-x1+y2, -y1-y2, 3/8-z1$ (4)
- i, g
- $x1-x2, y1-x2, z1-z2$ (8)
 $x1+x2, 1/2+y1+x2, 1/2+z1-z2$ (8)
 $1/2+x1+x2, 1/2+y1-x2, z1+z2$ (8)
 $1/2+x1-x2, y1+x2, 1/2+z1+z2$ (8)
 $x1-z2, y1-x2, z1-x2$ (8)
 $1/2+x1-z2, y1+x2, 1/2+z1+x2$ (8)
 $x1+z2, 1/2+y1+x2, 1/2+z1-x2$ (8)
 $1/2+x1+z2, 1/2+y1-x2, z1+x2$ (8)
 $x1-x2, y1-z2, z1-x2$ (8)
 $1/2+x1+x2, 1/2+y1-z2, z1+x2$ (8)
 $1/2+x1-x2, y1+z2, 1/2+z1+x2$ (8)
 $x1+x2, 1/2+y1+z2, 1/2+z1-x2$ (8)
 $1/4+x1-x2, 3/4+y1-x2, 1/4+z1+z2$ (4)
- $3/4+x1+x2, 3/4+y1+x2, 3/4+z1+z2$ (4)
 $3/4+x1-x2, 1/4+y1+x2, 1/4+z1-z2$ (4)
 $1/4+x1+x2, 1/4+y1-x2, 3/4+z1-z2$ (4)
 $1/4+x1-x2, 3/4+y1-z2, 1/4+z1+x2$ (4)
 $1/4+x1+x2, 1/4+y1-z2, 3/4+z1-x2$ (4)
 $3/4+x1+x2, 3/4+y1+z2, 3/4+z1+x2$ (4)
 $3/4+x1-x2, 1/4+y1+z2, 1/4+z1-x2$ (4)
 $1/4+x1-z2, 3/4+y1-x2, 1/4+z1+x2$ (4)
 $3/4+x1-z2, 1/4+y1+x2, 1/4+z1-x2$ (4)
 $1/4+x1+z2, 1/4+y1-x2, 3/4+z1-x2$ (4)
 $3/4+x1+z2, 3/4+y1+x2, 3/4+z1+x2$ (4)
 $1/4-x1+x2, 3/4-y1+x2, 1/4-z1-z2$ (4)
 $3/4-x1-x2, 3/4-y1-x2, 3/4-z1-z2$ (4)
 $3/4-x1+x2, 1/4-y1-x2, 1/4-z1+z2$ (4)
 $1/4-x1-x2, 1/4-y1+x2, 3/4-z1+z2$ (4)
 $1/4-x1+x2, 3/4-y1+z2, 1/4-z1-x2$ (4)
 $1/4-x1-x2, 1/4-y1+z2, 3/4-z1+x2$ (4)
 $3/4-x1-x2, 3/4-y1-z2, 3/4-z1-x2$ (4)
 $3/4-x1+x2, 1/4-y1-z2, 1/4-z1+x2$ (4)
 $1/4-x1+z2, 3/4-y1+x2, 1/4-z1-x2$ (4)
 $3/4-x1+z2, 1/4-y1-x2, 1/4-z1+x2$ (4)
 $1/4-x1-z2, 1/4-y1+x2, 3/4-z1+x2$ (4)
 $3/4-x1-z2, 3/4-y1-x2, 3/4-z1-x2$ (4)
- i, f
- $x1-x2, y1, z1$ (8)
 $x1+x2, 1/2+y1, 1/2+z1$ (8)
 $x1, y1-x2, z1$ (8)
 $1/2+x1, y1+x2, 1/2+z1$ (8)
 $x1, y1, z1-x2$ (8)
 $1/2+x1, 1/2+y1, z1+x2$ (8)
 $1/4+x1, 3/4+y1-x2, 1/4+z1$ (4)
 $3/4+x1, 3/4+y1+x2, 3/4+z1$ (4)
 $1/4+x1-x2, 3/4+y1, 1/4+z1$ (4)
 $1/4+x1+x2, 1/4+y1, 3/4+z1$ (4)
 $1/4+x1, 3/4+y1, 1/4+z1+x2$ (4)
 $3/4+x1, 1/4+y1, 1/4+z1-x2$ (4)
 $1/4-x1, 3/4-y1+x2, 1/4-z1$ (4)
 $3/4-x1, 3/4-y1-x2, 3/4-z1$ (4)
 $1/4-x1+x2, 3/4-y1, 1/4-z1$ (4)
 $1/4-x1-x2, 1/4-y1, 3/4-z1$ (4)
 $1/4-x1, 3/4-y1, 1/4-z1-x2$ (4)
 $3/4-x1, 1/4-y1, 1/4-z1+x2$ (4)
- i, e
- $x1-x2, y1-x2, z1-x2$ (8)
 $x1+x2, 1/2+y1+x2, 1/2+z1-x2$ (8)
 $1/2+x1+x2, 1/2+y1-x2, z1+x2$ (8)
 $1/2+x1-x2, y1+x2, 1/2+z1+x2$ (8)
 $1/4+x1-x2, 3/4+y1-x2, 1/4+z1+x2$ (4)
 $3/4+x1+x2, 3/4+y1+x2, 3/4+z1+x2$ (4)

ORIGIN CHOICE 1

- $3/4+x1-x2, 1/4+y1+x2, 1/4+z1-x2$ (4)
- $1/4+x1+x2, 1/4+y1-x2, 3/4+z1-x2$ (4)
- $1/4-x1+x2, 3/4-y1+x2, 1/4-z1-x2$ (4)
- $3/4-x1-x2, 3/4-y1-x2, 3/4-z1-x2$ (4)
- $3/4-x1+x2, 1/4-y1-x2, 1/4-z1+x2$ (4)
- $1/4-x1-x2, 1/4-y1+x2, 3/4-z1+x2$ (4)
- i, d $3/8+x1, 3/8+y1, 3/8+z1$ (4)
- $5/8+x1, 1/8+y1, 7/8+z1$ (4)
- $1/8+x1, 7/8+y1, 5/8+z1$ (4)
- $7/8+x1, 5/8+y1, 1/8+z1$ (4)
- $3/8-x1, 3/8-y1, 3/8-z1$ (4)
- $5/8-x1, 1/8-y1, 7/8-z1$ (4)
- $1/8-x1, 7/8-y1, 5/8-z1$ (4)
- $7/8-x1, 5/8-y1, 1/8-z1$ (4)
- i, c $7/8+x1, 7/8+y1, 7/8+z1$ (4)
- $1/8+x1, 5/8+y1, 3/8+z1$ (4)
- $5/8+x1, 3/8+y1, 1/8+z1$ (4)
- $3/8+x1, 1/8+y1, 5/8+z1$ (4)
- $7/8-x1, 7/8-y1, 7/8-z1$ (4)
- $1/8-x1, 5/8-y1, 3/8-z1$ (4)
- $5/8-x1, 3/8-y1, 1/8-z1$ (4)
- $3/8-x1, 1/8-y1, 5/8-z1$ (4)
- i, b $1/2+x1, 1/2+y1, 1/2+z1$ (8)
- $3/4+x1, 1/4+y1, 3/4+z1$ (4)
- $3/4-x1, 1/4-y1, 3/4-z1$ (4)
- i, a $x1, y1, z1$ (8)
- $1/4+x1, 3/4+y1, 1/4+z1$ (4)
- $1/4-x1, 3/4-y1, 1/4-z1$ (4)
- h, h $0, y1-y2, -y1+y2$ (16)
- $1/4, 1/2+y1+y2, 1/2-y1+y2$ (8)
- $1/2, y1+y2, -y1-y2$ (16)
- $7/8+y2, 7/8+y1, 1/4-y1-y2$ (8)
- $3/8+y2, 1/8+y1, 3/4-y1+y2$ (8)
- $3/8-y2, 5/8+y1, 3/4-y1-y2$ (8)
- $7/8-y2, 3/8+y1, 1/4-y1+y2$ (8)
- $0, 3/4+y1+y2, 1/4-y1-y2$ (16)
- $3/4, 1/4+y1-y2, 3/4-y1-y2$ (8)
- $1/2, 3/4+y1-y2, 1/4-y1+y2$ (16)
- $1/8-y2, 7/8+y1, -y1+y2$ (8)
- $5/8-y2, 5/8+y1, 1/2-y1-y2$ (8)
- $5/8+y2, 1/8+y1, 1/2-y1+y2$ (8)
- $1/8+y2, 3/8+y1, -y1-y2$ (8)
- h, g $1/8-x2, y1-x2, 1/4-y1-z2$ (4)
- $1/8+x2, 1/2+y1+x2, 3/4-y1-z2$ (4)
- $5/8+x2, 1/2+y1-x2, 1/4-y1+z2$ (4)
- $5/8-x2, y1+x2, 3/4-y1+z2$ (4)
- $1/8-z2, y1-x2, 1/4-y1-x2$ (4)
- $5/8-z2, y1+x2, 3/4-y1+x2$ (4)
- $1/8+z2, 1/2+y1+x2, 3/4-y1-x2$ (4)
- $5/8+z2, 1/2+y1-x2, 1/4-y1+x2$ (4)
- $1/8-x2, y1-z2, 1/4-y1-x2$ (4)
- $5/8+x2, 1/2+y1-z2, 1/4-y1+x2$ (4)
- $5/8-x2, y1+z2, 3/4-y1+x2$ (4)
- $1/8+x2, 1/2+y1+z2, 3/4-y1-x2$ (4)
- $1/8+x2, -y1+x2, 1/4+y1+z2$ (4)
- $1/8-x2, 1/2-y1-x2, 3/4+y1+z2$ (4)
- $5/8-x2, 1/2-y1+x2, 1/4+y1-z2$ (4)
- $5/8+x2, -y1-x2, 3/4+y1-z2$ (4)
- $1/8+z2, -y1+x2, 1/4+y1+x2$ (4)
- $5/8+z2, -y1-x2, 3/4+y1-x2$ (4)
- $1/8-z2, 1/2-y1-x2, 3/4+y1+x2$ (4)
- $5/8-z2, 1/2-y1+x2, 1/4+y1-x2$ (4)
- $1/8+x2, -y1+z2, 1/4+y1+x2$ (4)
- $5/8-x2, 1/2-y1+z2, 1/4+y1-x2$ (4)
- $5/8+x2, -y1-z2, 3/4+y1-x2$ (4)
- $1/8-x2, 1/2-y1-z2, 3/4+y1+x2$ (4)
- h, f $1/8-x2, y1, 1/4-y1$ (4)
- $1/8+x2, 1/2+y1, 3/4-y1$ (4)
- $1/8, y1-x2, 1/4-y1$ (4)
- $5/8, y1+x2, 3/4-y1$ (4)
- $1/8, y1, 1/4-y1-x2$ (4)
- $5/8, 1/2+y1, 1/4-y1+x2$ (4)
- $1/8+x2, -y1, 1/4+y1$ (4)
- $1/8-x2, 1/2-y1, 3/4+y1$ (4)
- $1/8, -y1+x2, 1/4+y1$ (4)
- $5/8, -y1-x2, 3/4+y1$ (4)
- $1/8, -y1, 1/4+y1+x2$ (4)
- $5/8, 1/2-y1, 1/4+y1-x2$ (4)
- h, e $1/8-x2, y1-x2, 1/4-y1-x2$ (4)
- $1/8+x2, 1/2+y1+x2, 3/4-y1-x2$ (4)
- $5/8+x2, 1/2+y1-x2, 1/4-y1+x2$ (4)
- $5/8-x2, y1+x2, 3/4-y1+x2$ (4)
- $1/8+x2, -y1+x2, 1/4+y1+x2$ (4)
- $1/8-x2, 1/2-y1-x2, 3/4+y1+x2$ (4)
- $5/8-x2, 1/2-y1+x2, 1/4+y1-x2$ (4)
- $5/8+x2, -y1-x2, 3/4+y1-x2$ (4)
- h, d $1/2, 3/8+y1, 5/8-y1$ (8)
- $3/4, 1/8+y1, 1/8-y1$ (8)
- $0, 5/8+y1, 3/8-y1$ (8)
- $1/2, 3/8-y1, 5/8+y1$ (8)
- $0, 5/8-y1, 3/8+y1$ (8)
- h, c $0, 7/8+y1, 1/8-y1$ (8)
- $1/4, 5/8+y1, 5/8-y1$ (8)
- $1/2, 1/8+y1, 7/8-y1$ (8)

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	$0, 7/8-y1, 1/8+y1$ (8)		$3/4-x1+x2, 1/4-x1-x2, 1/4-z1+x2$ (4)
	$1/2, 1/8-y1, 7/8+y1$ (8)	g, d	$3/8+x1, 3/8+x1, 3/8+z1$ (4)
h, b	$5/8, 1/2+y1, 3/4-y1$ (4)		$5/8+x1, 1/8+x1, 7/8+z1$ (4)
	$5/8, 1/2-y1, 3/4+y1$ (4)		$1/8+x1, 7/8+x1, 5/8+z1$ (4)
h, a	$1/8, y1, 1/4-y1$ (4)		$3/8-x1, 3/8-x1, 3/8-z1$ (4)
	$1/8, -y1, 1/4+y1$ (4)		$5/8-x1, 1/8-x1, 7/8-z1$ (4)
g, g	$x1-x2, x1-x2, z1-z2$ (8)		$1/8-x1, 7/8-x1, 5/8-z1$ (4)
	$x1+x2, 1/2+x1+x2, 1/2+z1-z2$ (8)	g, c	$7/8+x1, 7/8+x1, 7/8+z1$ (4)
	$1/2+x1+x2, 1/2+x1-x2, z1+z2$ (8)		$1/8+x1, 5/8+x1, 3/8+z1$ (4)
	$x1-z2, x1-x2, z1-x2$ (8)		$5/8+x1, 3/8+x1, 1/8+z1$ (4)
	$1/2+x1-z2, x1+x2, 1/2+z1+x2$ (8)		$7/8-x1, 7/8-x1, 7/8-z1$ (4)
	$x1+z2, 1/2+x1+x2, 1/2+z1-x2$ (8)		$1/8-x1, 5/8-x1, 3/8-z1$ (4)
	$1/2+x1+z2, 1/2+x1-x2, z1+x2$ (8)		$5/8-x1, 3/8-x1, 1/8-z1$ (4)
	$1/4+x1-x2, 3/4+x1-x2, 1/4+z1+z2$ (4)	g, b	$1/2+x1, 1/2+x1, 1/2+z1$ (8)
	$3/4+x1+x2, 3/4+x1+x2, 3/4+z1+z2$ (4)		$3/4+x1, 1/4+x1, 3/4+z1$ (4)
	$3/4+x1-x2, 1/4+x1+x2, 1/4+z1-z2$ (4)		$3/4-x1, 1/4-x1, 3/4-z1$ (4)
	$1/4+x1-x2, 3/4+x1-z2, 1/4+z1+x2$ (4)	g, a	$x1, x1, z1$ (8)
	$1/4+x1+x2, 1/4+x1-z2, 3/4+z1-x2$ (4)		$1/4+x1, 3/4+x1, 1/4+z1$ (4)
	$3/4+x1+x2, 3/4+x1+z2, 3/4+z1+x2$ (4)		$1/4-x1, 3/4-x1, 1/4-z1$ (4)
	$3/4+x1-x2, 1/4+x1+z2, 1/4+z1-x2$ (4)	f, f	$x1-x2, 0, 0$ (16)
	$1/4-x1+x2, 3/4-x1+x2, 1/4-z1-z2$ (4)		$x1+x2, 1/2, 1/2$ (16)
	$3/4-x1-x2, 3/4-x1-x2, 3/4-z1-z2$ (4)		$x1, -x2, 0$ (16)
	$3/4-x1+x2, 1/4-x1-x2, 1/4-z1+z2$ (4)		$1/4+x1, 3/4-x2, 1/4$ (8)
	$1/4-x1+x2, 3/4-x1+z2, 1/4-z1-x2$ (4)		$1/4+x1-x2, 3/4, 1/4$ (8)
	$1/4-x1-x2, 1/4-x1+z2, 3/4-z1+x2$ (4)		$1/4+x1+x2, 1/4, 3/4$ (8)
	$3/4-x1-x2, 3/4-x1-z2, 3/4-z1-x2$ (4)	f, e	$x1-x2, -x2, -x2$ (8)
	$3/4-x1+x2, 1/4-x1-z2, 1/4-z1+x2$ (4)		$x1+x2, 1/2+x2, 1/2-x2$ (8)
g, f	$x1-x2, x1, z1$ (8)		$1/4+x1-x2, 3/4-x2, 1/4+x2$ (4)
	$x1+x2, 1/2+x1, 1/2+z1$ (8)		$3/4+x1+x2, 3/4+x2, 3/4+x2$ (4)
	$x1, x1, z1-x2$ (8)		$1/4-x1+x2, 3/4+x2, 1/4-x2$ (4)
	$1/2+x1, 1/2+x1, z1+x2$ (8)		$3/4-x1-x2, 3/4-x2, 3/4-x2$ (4)
	$1/4+x1, 3/4+x1-x2, 1/4+z1$ (4)	f, d	$3/8+x1, 3/8, 3/8$ (8)
	$3/4+x1, 3/4+x1+x2, 3/4+z1$ (4)		$5/8+x1, 1/8, 7/8$ (8)
	$1/4+x1, 3/4+x1, 1/4+z1+x2$ (4)	f, c	$7/8+x1, 7/8, 7/8$ (8)
	$3/4+x1, 1/4+x1, 1/4+z1-x2$ (4)		$1/8+x1, 5/8, 3/8$ (8)
	$1/4-x1, 3/4-x1+x2, 1/4-z1$ (4)	f, b	$1/2+x1, 1/2, 1/2$ (16)
	$3/4-x1, 3/4-x1-x2, 3/4-z1$ (4)		$3/4+x1, 1/4, 3/4$ (8)
	$1/4-x1, 3/4-x1, 1/4-z1-x2$ (4)	f, a	$x1, 0, 0$ (16)
	$3/4-x1, 1/4-x1, 1/4-z1+x2$ (4)		$1/4+x1, 3/4, 1/4$ (8)
g, e	$x1-x2, x1-x2, z1-x2$ (8)	e, e	$x1-x2, x1-x2, x1-x2$ (8)
	$x1+x2, 1/2+x1+x2, 1/2+z1-x2$ (8)		$x1+x2, 1/2+x1+x2, 1/2+x1-x2$ (8)
	$1/2+x1+x2, 1/2+x1-x2, z1+x2$ (8)		$1/4+x1-x2, 3/4+x1-x2, 1/4+x1+x2$ (4)
	$1/4+x1-x2, 3/4+x1-x2, 1/4+z1+x2$ (4)		$3/4+x1+x2, 3/4+x1+x2, 3/4+x1+x2$ (4)
	$3/4+x1+x2, 3/4+x1+x2, 3/4+z1+x2$ (4)		$1/4-x1+x2, 3/4-x1+x2, 1/4-x1-x2$ (4)
	$3/4+x1-x2, 1/4+x1+x2, 1/4+z1-x2$ (4)		$3/4-x1-x2, 3/4-x1-x2, 3/4-x1-x2$ (4)
	$1/4-x1+x2, 3/4-x1+x2, 1/4-z1-x2$ (4)	e, d	$3/8+x1, 3/8+x1, 3/8+x1$ (4)
	$3/4-x1-x2, 3/4-x1-x2, 3/4-z1-x2$ (4)		$5/8+x1, 1/8+x1, 7/8+x1$ (4)

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- $3/8-x1, 3/8-x1, 3/8-x1$ (4)
 $5/8-x1, 1/8-x1, 7/8-x1$ (4)
e, c $7/8+x1, 7/8+x1, 7/8+x1$ (4)
 $1/8+x1, 5/8+x1, 3/8+x1$ (4)
 $7/8-x1, 7/8-x1, 7/8-x1$ (4)
 $1/8-x1, 5/8-x1, 3/8-x1$ (4)
e, b $1/2+x1, 1/2+x1, 1/2+x1$ (8)
 $3/4+x1, 1/4+x1, 3/4+x1$ (4)
 $3/4-x1, 1/4-x1, 3/4-x1$ (4)
e, a $x1, x1, x1$ (8)
 $1/4+x1, 3/4+x1, 1/4+x1$ (4)
 $1/4-x1, 3/4-x1, 1/4-x1$ (4)
d, c $1/2, 1/2, 1/2$ (32)
 $3/4, 1/4, 0$ (16)
d, b $1/8, 1/8, 1/8$ (8)
d, a $5/8, 5/8, 5/8$ (8)
c, b $5/8, 5/8, 5/8$ (8)
c, a $1/8, 1/8, 1/8$ (8)
b, a $1/2, 1/2, 1/2$ (16)
 $3/4, 1/4, 3/4$ (8)