MSG No. 161.70 $R3c1'$ [Type II, trigonal]

Table 1: Wyckoff site: `6a`, site symmetry: `3..1'`

No.	position	mapping
1	$[0,\ 0,\ z]$	`[1,2,3,19,20,21]`
2	$\left[0,\ 0,\ z+\frac{1}{2}\right]$	`[4,5,6,22,23,24]`
3	$\left[\frac{2}{3},\ \frac{1}{3},\ z+\frac{1}{3}\right]$	`[7,8,9,25,26,27]`
4	$\left[\frac{2}{3},\ \frac{1}{3},\ z+\frac{5}{6}\right]$	`[10,11,12,28,29,30]`
5	$\left[\frac{1}{3},\ \frac{2}{3},\ z+\frac{2}{3}\right]$	`[13,14,15,31,32,33]`
6	$\left[\frac{1}{3},\ \frac{2}{3},\ z+\frac{1}{6}\right]$	`[16,17,18,34,35,36]`

Table 2: Wyckoff site: `18b`, site symmetry: `11'`

No.	position	mapping
1	$[x,\ y,\ z]$	`[1,19]`
2	$[-y,\ x-y,\ z]$	`[2,20]`
3	$[-x+y,\ -x,\ z]$	`[3,21]`
4	$\left[-x+y,\ y,\ z+\frac{1}{2}\right]$	`[4,22]`
5	$\left[-y,\ -x,\ z+\frac{1}{2}\right]$	`[5,23]`
6	$\left[x,\ x-y,\ z+\frac{1}{2}\right]$	`[6,24]`
7	$\left[x+\frac{2}{3},\ y+\frac{1}{3},\ z+\frac{1}{3}\right]$	`[7,25]`
8	$\left[\frac{2}{3}-y,\ x-y+\frac{1}{3},\ z+\frac{1}{3}\right]$	`[8,26]`
9	$\left[-x+y+\frac{2}{3},\ \frac{1}{3}-x,\ z+\frac{1}{3}\right]$	`[9,27]`
10	$\left[-x+y+\frac{2}{3},\ y+\frac{1}{3},\ z+\frac{5}{6}\right]$	`[10,28]`
11	$\left[\frac{2}{3}-y,\ \frac{1}{3}-x,\ z+\frac{5}{6}\right]$	`[11,29]`
12	$\left[x+\frac{2}{3},\ x-y+\frac{1}{3},\ z+\frac{5}{6}\right]$	`[12,30]`
13	$\left[x+\frac{1}{3},\ y+\frac{2}{3},\ z+\frac{2}{3}\right]$	`[13,31]`
14	$\left[\frac{1}{3}-y,\ x-y+\frac{2}{3},\ z+\frac{2}{3}\right]$	`[14,32]`
15	$\left[-x+y+\frac{1}{3},\ \frac{2}{3}-x,\ z+\frac{2}{3}\right]$	`[15,33]`
16	$\left[-x+y+\frac{1}{3},\ y+\frac{2}{3},\ z+\frac{1}{6}\right]$	`[16,34]`
17	$\left[\frac{1}{3}-y,\ \frac{2}{3}-x,\ z+\frac{1}{6}\right]$	`[17,35]`
18	$\left[x+\frac{1}{3},\ x-y+\frac{2}{3},\ z+\frac{1}{6}\right]$	`[18,36]`