$P432$ No. 207 O^1

	Axes	Coordinates	Wyckoff positions					
			$1a$	$1b$ $8g$	$3c$ $12h$	$3d$ $12i$	$4e$ $12j$	$6f$ $24k$
I Maximal *translationengleiche* subgroups								
[2] $P23$ (195)			$1a$	$1b$ $2\times4e$	$3c$ $6g;6h$	$3d$ $12j$	$6f$ $12j$	$6i$ $2\times12j$
[4] $R32$ (155)	(rhombohedral axes)		$1a$	$1b$ $2c;6f$	$3d$ $2\times6f$	$3e$ $2\times3d;6f$	$6f$ $2\times3e;6f$	$6f$ $4\times6f$
(hex. axes)	$\mathbf{a}-\mathbf{b}, \mathbf{b}-\mathbf{c}, \mathbf{a}+\mathbf{b}+\mathbf{c}$	$\frac{1}{3}(2x-y-z), \frac{1}{3}(x+y-2z), \frac{1}{3}(x+y+z)$	$3a$	$3b$ $6c;18f$	$9d$ $2\times18f$	$9e$ $2\times9d;18f$	$18f$ $2\times9e;18f$	$18f$ $4\times18f$
conjugate:	$-\mathbf{a}-\mathbf{b}, \mathbf{b}+\mathbf{c}, -\mathbf{a}+\mathbf{b}-\mathbf{c}$ (hexagonal axes)	$\frac{1}{3}(-2x-y+z), \frac{1}{3}(-x+y+2z), \frac{1}{3}(-x+y-z)$						
conjugate:	$\mathbf{a}+\mathbf{b}, -\mathbf{b}+\mathbf{c}, \mathbf{a}-\mathbf{b}-\mathbf{c}$ (hexagonal axes)	$\frac{1}{3}(2x+y+z), \frac{1}{3}(x-y+2z), \frac{1}{3}(x-y-z)$						
conjugate:	$-\mathbf{a}+\mathbf{b}, -\mathbf{b}-\mathbf{c}, -\mathbf{a}-\mathbf{b}+\mathbf{c}$ (hexagonal axes)	$\frac{1}{3}(-2x+y-z), \frac{1}{3}(-x-y-2z), \frac{1}{3}(-x-y+z)$						
[3] $P422$ (89)			$1a$	$1d$ $8p$	$1c;2f$ $4i;4n;4o$	$1b;2e$ $4j;8p$	$2g;4l$ $4k;8p$	$2h;4m$ $3\times8p$
conjugate:	$\mathbf{b}, \mathbf{c}, \mathbf{a}$	y, z, x						
conjugate:	$\mathbf{c}, \mathbf{a}, \mathbf{b}$	z, x, y						
II Maximal *klassengleiche* subgroups								
Enlarged unit cell, non-isomorphic								
[2] $F432$ (209)	$2\mathbf{a}, 2\mathbf{b}, 2\mathbf{c}$	$\frac{1}{2}x, \frac{1}{2}y, \frac{1}{2}z; +(\frac{1}{2},0,0)$	$4a;4b$	$8c$ $2\times32f$	$24d$ $96j$	$24e$ $48g;48h$	$2\times24e$ $96j$	$48i$ $2\times96j$
[2] $F432$ (209)	$2\mathbf{a}, 2\mathbf{b}, 2\mathbf{c}$	$\frac{1}{2}x+\frac{1}{4}, \frac{1}{2}y+\frac{1}{4}, \frac{1}{2}z+\frac{1}{4}; +(\frac{1}{2},0,0)$	$8c$	$4a;4b$ $2\times32f$	$24e$ $96j$	$24d$ $96j$	$48i$ $48g;48h$	$2\times24e$ $2\times96j$
[4] $I432$ (211)	$2\mathbf{a}, 2\mathbf{b}, 2\mathbf{c}$	$\frac{1}{2}x, \frac{1}{2}y, \frac{1}{2}z; +(\frac{1}{2},0,0); +(0,\frac{1}{2},0); +(0,0,\frac{1}{2})$	$2a;6b$	$8c$ $16f;48j$	$24h$ $2\times48j$	$12d;12e$ $2\times24h;48j$	$2\times12e;24g$ $2\times24i;48j$	$48j$ $4\times48j$
[4] $I432$ (211)	$2\mathbf{a}, 2\mathbf{b}, 2\mathbf{c}$	$\frac{1}{2}x+\frac{1}{4}, \frac{1}{2}y+\frac{1}{4}, \frac{1}{2}z+\frac{1}{4}; +(\frac{1}{2},0,0); +(0,\frac{1}{2},0); +(0,0,\frac{1}{2})$	$8c$	$2a;6b$ $16f;48j$	$12d;12e$ $2\times48j$	$24h$ $2\times24i;48j$	$48j$ $2\times24h;48j$	$2\times12e;24g$ $4\times48j$
Enlarged unit cell, isomorphic								
[27] $P432$	$3\mathbf{a}, 3\mathbf{b}, 3\mathbf{c}$	$\frac{1}{3}x, \frac{1}{3}y, \frac{1}{3}z; \pm(\frac{1}{3},0,0); \pm(0,\frac{1}{3},0); \pm(0,0,\frac{1}{3}); \pm(0,\frac{1}{3},\frac{1}{3}); \pm(\frac{1}{3},0,\frac{1}{3}); \pm(\frac{1}{3},\frac{1}{3},0); \pm(0,\frac{1}{3},\frac{2}{3}); \pm(\frac{1}{3},0,\frac{2}{3}); \pm(\frac{1}{3},\frac{2}{3},0); \pm(\frac{1}{3},\frac{1}{3},\frac{1}{3}); \pm(\frac{1}{3},\frac{1}{3},\frac{2}{3}); \pm(\frac{1}{3},\frac{2}{3},\frac{1}{3}); \pm(\frac{2}{3},\frac{1}{3},\frac{1}{3})$	$1a;6e;8g;12i$	$1b;6f;8g;12j$ $3\times8g;8\times24k$	$3c;6f;12h;12i;2\times24k$ $3\times12h;12\times24k$	$3d;6e;12h;12j;2\times24k$ $3\times12i;12\times24k$	$3\times6e;6\times24k$ $3\times12j;12\times24k$	$3\times6f;6\times24k$ $27\times24k$
[p^3] $P432$	$p\mathbf{a}, p\mathbf{b}, p\mathbf{c}$ $p=$ prime >2; $u,v,w=1,\ldots,p-1$	$\frac{1}{p}x, \frac{1}{p}y, \frac{1}{p}z; +(\frac{u}{p},\frac{v}{p},\frac{w}{p})$	$1a;\frac{p-1}{2}\times6e;\frac{p-1}{2}\times8g;\frac{p-1}{2}\times12i;\frac{p^3-13p+12}{24}\times24k$	$1b;\frac{p-1}{2}\times6f;\frac{p-1}{2}\times8g;\frac{p-1}{2}\times12j;\frac{p^3-13p+12}{24}\times24k$ $p\times8g;\frac{p(p^2-1)}{3}\times24k$	$3c;\frac{p-1}{2}\times6f;\frac{p-1}{2}\times12h;\frac{p-1}{2}\times12i;\frac{p^3-5p+4}{8}\times24k$ $p\times12h;\frac{p(p^2-1)}{2}\times24k$	$3d;\frac{p-1}{2}\times6e;\frac{p-1}{2}\times12h;\frac{p-1}{2}\times12j;\frac{p^3-5p+4}{8}\times24k$ $p\times12i;\frac{p(p^2-1)}{2}\times24k$	$p\times6e;\frac{p(p^2-1)}{4}\times24k$ $p\times12j;\frac{p(p^2-1)}{2}\times24k$	$p\times6f;\frac{p(p^2-1)}{4}\times24k$ $p^3\times24k$