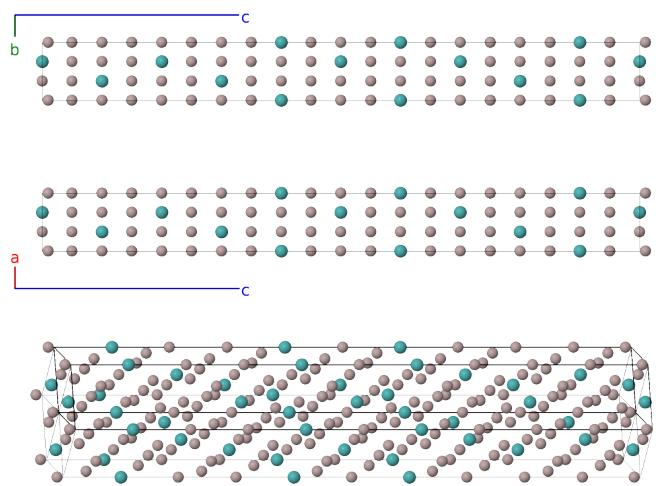
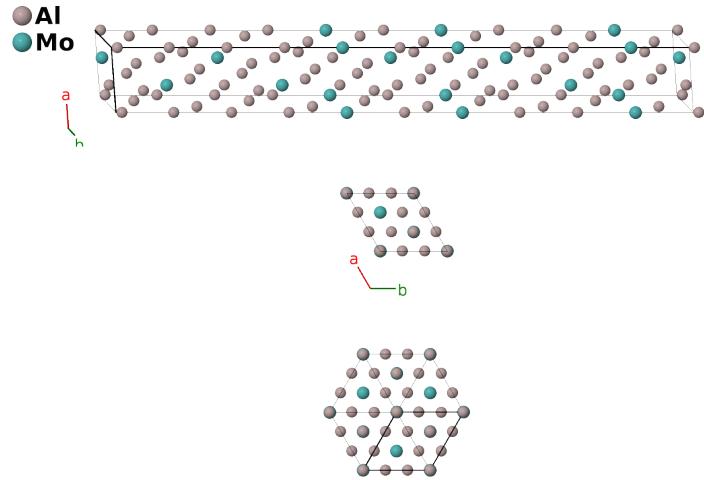


Trigonal (h') Al₅Mo Structure: A5B_hP60_143_7a7b6c10d_3a3b4c-001

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[https://afflow.org/p/TWK7](https://aflow.org/p/TWK7)

https://afflow.org/p/A5B_hP60_143_7a7b6c10d_3a3b4c-001



Prototype Al₅Mo

AFLOW prototype label A5B_hP60_143_7a7b6c10d_3a3b4c-001

ICSD 105519

Pearson symbol hP60

Space group number 143

Space group symbol P3

AFLOW prototype command

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--params=a,c/a,z1,z2,z3,z4,z5,z6,z7,z8,z9,z10,z11,z12,z13,z14,z15,z16,z17,z18,z19,
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x35,y35,z35,x36,y36,z36,x37,y37,z37,x38,y38,z38,x39,y39,z39,x40,y40,z40
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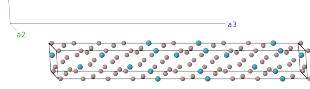
- Al₅Mo is known to have three phases (Schuster, 1991):

- Below 650K it is in a rhombohedral structure, Al₅Mo (r).
- Between 650K and 750-800K it is in a trigonal structure, Al₅Mo(h') (this structure).
- Above 750-800K up to 846K it is in the Al₅W structure.

- The Al₅Mo(h') atomic positions in (Schuster, 1991) are highly symmetric and approximate, and put the system in space group P321 #150. To show the correct P3 space group we slightly shifted the Al-I atom's z-coordinate. Presumably further refinement of the coordinates would let us determine the correct space group.

Trigonal (Hexagonal) primitive vectors

$$\begin{aligned}\mathbf{a}_1 &= \frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a\hat{\mathbf{y}} \\ \mathbf{a}_2 &= \frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}a\hat{\mathbf{y}} \\ \mathbf{a}_3 &= c\hat{\mathbf{z}}\end{aligned}$$



Basis vectors

	Lattice coordinates	Cartesian coordinates	Wyckoff position	Atom type
$\mathbf{B}_1 =$	$z_1 \mathbf{a}_3$	$cz_1 \hat{\mathbf{z}}$	(1a)	Al I
$\mathbf{B}_2 =$	$z_2 \mathbf{a}_3$	$cz_2 \hat{\mathbf{z}}$	(1a)	Al II
$\mathbf{B}_3 =$	$z_3 \mathbf{a}_3$	$cz_3 \hat{\mathbf{z}}$	(1a)	Al III
$\mathbf{B}_4 =$	$z_4 \mathbf{a}_3$	$cz_4 \hat{\mathbf{z}}$	(1a)	Al IV
$\mathbf{B}_5 =$	$z_5 \mathbf{a}_3$	$cz_5 \hat{\mathbf{z}}$	(1a)	Al V
$\mathbf{B}_6 =$	$z_6 \mathbf{a}_3$	$cz_6 \hat{\mathbf{z}}$	(1a)	Al VI
$\mathbf{B}_7 =$	$z_7 \mathbf{a}_3$	$cz_7 \hat{\mathbf{z}}$	(1a)	Al VII
$\mathbf{B}_8 =$	$z_8 \mathbf{a}_3$	$cz_8 \hat{\mathbf{z}}$	(1a)	Mo I
$\mathbf{B}_9 =$	$z_9 \mathbf{a}_3$	$cz_9 \hat{\mathbf{z}}$	(1a)	Mo II
$\mathbf{B}_{10} =$	$z_{10} \mathbf{a}_3$	$cz_{10} \hat{\mathbf{z}}$	(1a)	Mo III
$\mathbf{B}_{11} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{11} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{11} \hat{\mathbf{z}}$	(1b)	Al VIII
$\mathbf{B}_{12} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{12} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{12} \hat{\mathbf{z}}$	(1b)	Al IX
$\mathbf{B}_{13} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{13} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{13} \hat{\mathbf{z}}$	(1b)	Al X
$\mathbf{B}_{14} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{14} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{14} \hat{\mathbf{z}}$	(1b)	Al XI
$\mathbf{B}_{15} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{15} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{15} \hat{\mathbf{z}}$	(1b)	Al XII
$\mathbf{B}_{16} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{16} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{16} \hat{\mathbf{z}}$	(1b)	Al XIII
$\mathbf{B}_{17} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{17} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{17} \hat{\mathbf{z}}$	(1b)	Al XIV
$\mathbf{B}_{18} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{18} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{18} \hat{\mathbf{z}}$	(1b)	Mo IV
$\mathbf{B}_{19} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{19} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{19} \hat{\mathbf{z}}$	(1b)	Mo V
$\mathbf{B}_{20} =$	$\frac{1}{3}\mathbf{a}_1 + \frac{2}{3}\mathbf{a}_2 + z_{20} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{20} \hat{\mathbf{z}}$	(1b)	Mo VI
$\mathbf{B}_{21} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{21} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{21} \hat{\mathbf{z}}$	(1c)	Al XV
$\mathbf{B}_{22} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{22} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{22} \hat{\mathbf{z}}$	(1c)	Al XVI
$\mathbf{B}_{23} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{23} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{23} \hat{\mathbf{z}}$	(1c)	Al XVII
$\mathbf{B}_{24} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{24} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{24} \hat{\mathbf{z}}$	(1c)	Al XVIII
$\mathbf{B}_{25} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{25} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{25} \hat{\mathbf{z}}$	(1c)	Al XIX
$\mathbf{B}_{26} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{26} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{26} \hat{\mathbf{z}}$	(1c)	Al XX
$\mathbf{B}_{27} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{27} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{27} \hat{\mathbf{z}}$	(1c)	Mo VII
$\mathbf{B}_{28} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{28} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{28} \hat{\mathbf{z}}$	(1c)	Mo VIII
$\mathbf{B}_{29} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{29} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{29} \hat{\mathbf{z}}$	(1c)	Mo IX
$\mathbf{B}_{30} =$	$\frac{2}{3}\mathbf{a}_1 + \frac{1}{3}\mathbf{a}_2 + z_{30} \mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - \frac{\sqrt{3}}{6}a\hat{\mathbf{y}} + cz_{30} \hat{\mathbf{z}}$	(1c)	Mo X
$\mathbf{B}_{31} =$	$x_{31} \mathbf{a}_1 + y_{31} \mathbf{a}_2 + z_{31} \mathbf{a}_3$	$\frac{1}{2}a(x_{31} + y_{31})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{31} - y_{31})\hat{\mathbf{y}} + cz_{31} \hat{\mathbf{z}}$	(3d)	Al XXI
$\mathbf{B}_{32} =$	$-y_{31} \mathbf{a}_1 + (x_{31} - y_{31}) \mathbf{a}_2 + z_{31} \mathbf{a}_3$	$\frac{1}{2}a(x_{31} - 2y_{31})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{31}\hat{\mathbf{y}} + cz_{31} \hat{\mathbf{z}}$	(3d)	Al XXI
$\mathbf{B}_{33} =$	$-(x_{31} - y_{31}) \mathbf{a}_1 - x_{31} \mathbf{a}_2 + z_{31} \mathbf{a}_3$	$-\frac{1}{2}a(2x_{31} - y_{31})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{31}\hat{\mathbf{y}} + cz_{31} \hat{\mathbf{z}}$	(3d)	Al XXI

B₃₄	=	$x_{32} \mathbf{a}_1 + y_{32} \mathbf{a}_2 + z_{32} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{32} + y_{32})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{32} - y_{32})\hat{\mathbf{y}} + cz_{32}\hat{\mathbf{z}}$	(3d)	Al XXII
B₃₅	=	$-y_{32} \mathbf{a}_1 + (x_{32} - y_{32}) \mathbf{a}_2 + z_{32} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{32} - 2y_{32})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{32}\hat{\mathbf{y}} + cz_{32}\hat{\mathbf{z}}$	(3d)	Al XXII
B₃₆	=	$-(x_{32} - y_{32}) \mathbf{a}_1 - x_{32} \mathbf{a}_2 + z_{32} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{32} - y_{32})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{32}\hat{\mathbf{y}} + cz_{32}\hat{\mathbf{z}}$	(3d)	Al XXII
B₃₇	=	$x_{33} \mathbf{a}_1 + y_{33} \mathbf{a}_2 + z_{33} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{33} + y_{33})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{33} - y_{33})\hat{\mathbf{y}} + cz_{33}\hat{\mathbf{z}}$	(3d)	Al XXIII
B₃₈	=	$-y_{33} \mathbf{a}_1 + (x_{33} - y_{33}) \mathbf{a}_2 + z_{33} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{33} - 2y_{33})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{33}\hat{\mathbf{y}} + cz_{33}\hat{\mathbf{z}}$	(3d)	Al XXIII
B₃₉	=	$-(x_{33} - y_{33}) \mathbf{a}_1 - x_{33} \mathbf{a}_2 + z_{33} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{33} - y_{33})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{33}\hat{\mathbf{y}} + cz_{33}\hat{\mathbf{z}}$	(3d)	Al XXIII
B₄₀	=	$x_{34} \mathbf{a}_1 + y_{34} \mathbf{a}_2 + z_{34} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{34} + y_{34})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{34} - y_{34})\hat{\mathbf{y}} + cz_{34}\hat{\mathbf{z}}$	(3d)	Al XXIV
B₄₁	=	$-y_{34} \mathbf{a}_1 + (x_{34} - y_{34}) \mathbf{a}_2 + z_{34} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{34} - 2y_{34})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{34}\hat{\mathbf{y}} + cz_{34}\hat{\mathbf{z}}$	(3d)	Al XXIV
B₄₂	=	$-(x_{34} - y_{34}) \mathbf{a}_1 - x_{34} \mathbf{a}_2 + z_{34} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{34} - y_{34})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{34}\hat{\mathbf{y}} + cz_{34}\hat{\mathbf{z}}$	(3d)	Al XXIV
B₄₃	=	$x_{35} \mathbf{a}_1 + y_{35} \mathbf{a}_2 + z_{35} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{35} + y_{35})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{35} - y_{35})\hat{\mathbf{y}} + cz_{35}\hat{\mathbf{z}}$	(3d)	Al XXV
B₄₄	=	$-y_{35} \mathbf{a}_1 + (x_{35} - y_{35}) \mathbf{a}_2 + z_{35} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{35} - 2y_{35})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{35}\hat{\mathbf{y}} + cz_{35}\hat{\mathbf{z}}$	(3d)	Al XXV
B₄₅	=	$-(x_{35} - y_{35}) \mathbf{a}_1 - x_{35} \mathbf{a}_2 + z_{35} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{35} - y_{35})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{35}\hat{\mathbf{y}} + cz_{35}\hat{\mathbf{z}}$	(3d)	Al XXV
B₄₆	=	$x_{36} \mathbf{a}_1 + y_{36} \mathbf{a}_2 + z_{36} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{36} + y_{36})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{36} - y_{36})\hat{\mathbf{y}} + cz_{36}\hat{\mathbf{z}}$	(3d)	Al XXVI
B₄₇	=	$-y_{36} \mathbf{a}_1 + (x_{36} - y_{36}) \mathbf{a}_2 + z_{36} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{36} - 2y_{36})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{36}\hat{\mathbf{y}} + cz_{36}\hat{\mathbf{z}}$	(3d)	Al XXVI
B₄₈	=	$-(x_{36} - y_{36}) \mathbf{a}_1 - x_{36} \mathbf{a}_2 + z_{36} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{36} - y_{36})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{36}\hat{\mathbf{y}} + cz_{36}\hat{\mathbf{z}}$	(3d)	Al XXVI
B₄₉	=	$x_{37} \mathbf{a}_1 + y_{37} \mathbf{a}_2 + z_{37} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{37} + y_{37})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{37} - y_{37})\hat{\mathbf{y}} + cz_{37}\hat{\mathbf{z}}$	(3d)	Al XXVII
B₅₀	=	$-y_{37} \mathbf{a}_1 + (x_{37} - y_{37}) \mathbf{a}_2 + z_{37} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{37} - 2y_{37})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{37}\hat{\mathbf{y}} + cz_{37}\hat{\mathbf{z}}$	(3d)	Al XXVII
B₅₁	=	$-(x_{37} - y_{37}) \mathbf{a}_1 - x_{37} \mathbf{a}_2 + z_{37} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{37} - y_{37})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{37}\hat{\mathbf{y}} + cz_{37}\hat{\mathbf{z}}$	(3d)	Al XXVII
B₅₂	=	$x_{38} \mathbf{a}_1 + y_{38} \mathbf{a}_2 + z_{38} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{38} + y_{38})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{38} - y_{38})\hat{\mathbf{y}} + cz_{38}\hat{\mathbf{z}}$	(3d)	Al XXVIII
B₅₃	=	$-y_{38} \mathbf{a}_1 + (x_{38} - y_{38}) \mathbf{a}_2 + z_{38} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{38} - 2y_{38})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{38}\hat{\mathbf{y}} + cz_{38}\hat{\mathbf{z}}$	(3d)	Al XXVIII
B₅₄	=	$-(x_{38} - y_{38}) \mathbf{a}_1 - x_{38} \mathbf{a}_2 + z_{38} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{38} - y_{38})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{38}\hat{\mathbf{y}} + cz_{38}\hat{\mathbf{z}}$	(3d)	Al XXVIII
B₅₅	=	$x_{39} \mathbf{a}_1 + y_{39} \mathbf{a}_2 + z_{39} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{39} + y_{39})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{39} - y_{39})\hat{\mathbf{y}} + cz_{39}\hat{\mathbf{z}}$	(3d)	Al XXIX
B₅₆	=	$-y_{39} \mathbf{a}_1 + (x_{39} - y_{39}) \mathbf{a}_2 + z_{39} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{39} - 2y_{39})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{39}\hat{\mathbf{y}} + cz_{39}\hat{\mathbf{z}}$	(3d)	Al XXIX
B₅₇	=	$-(x_{39} - y_{39}) \mathbf{a}_1 - x_{39} \mathbf{a}_2 + z_{39} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{39} - y_{39})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{39}\hat{\mathbf{y}} + cz_{39}\hat{\mathbf{z}}$	(3d)	Al XXIX
B₅₈	=	$x_{40} \mathbf{a}_1 + y_{40} \mathbf{a}_2 + z_{40} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{40} + y_{40})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}a(x_{40} - y_{40})\hat{\mathbf{y}} + cz_{40}\hat{\mathbf{z}}$	(3d)	Al XXX
B₅₉	=	$-y_{40} \mathbf{a}_1 + (x_{40} - y_{40}) \mathbf{a}_2 + z_{40} \mathbf{a}_3$	=	$\frac{1}{2}a(x_{40} - 2y_{40})\hat{\mathbf{x}} + \frac{\sqrt{3}}{2}ax_{40}\hat{\mathbf{y}} + cz_{40}\hat{\mathbf{z}}$	(3d)	Al XXX
B₆₀	=	$-(x_{40} - y_{40}) \mathbf{a}_1 - x_{40} \mathbf{a}_2 + z_{40} \mathbf{a}_3$	=	$-\frac{1}{2}a(2x_{40} - y_{40})\hat{\mathbf{x}} - \frac{\sqrt{3}}{2}ay_{40}\hat{\mathbf{y}} + cz_{40}\hat{\mathbf{z}}$	(3d)	Al XXX

References

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