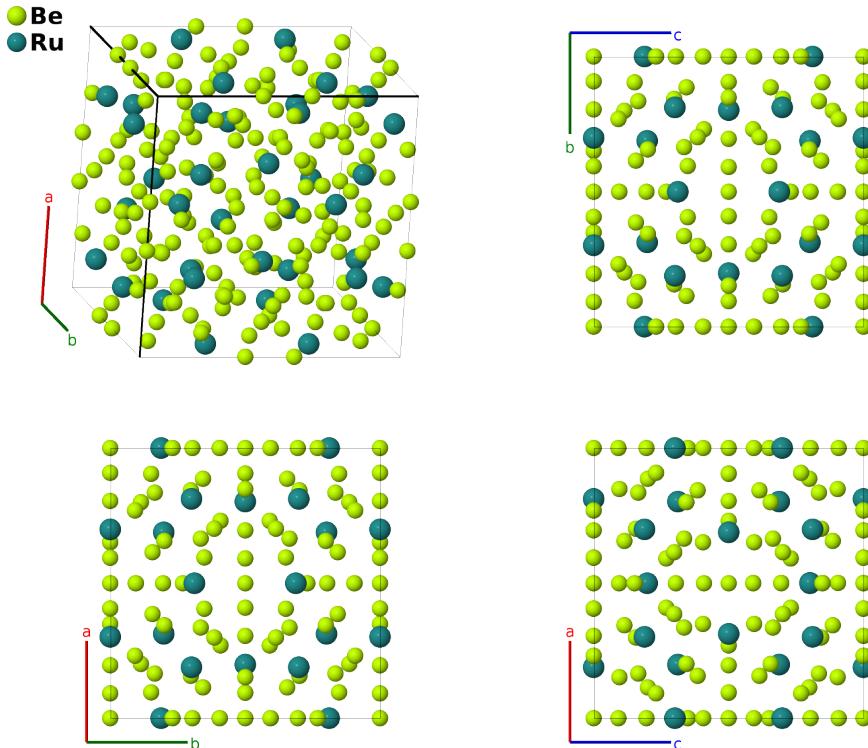


# Ru<sub>3</sub>Be<sub>17</sub> Structure: A17B3\_cI160\_204\_def2gh\_g-001

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<https://aflow.org/p/92TS>

[https://aflow.org/p/A17B3\\_cI160\\_204\\_def2gh\\_g-001](https://aflow.org/p/A17B3_cI160_204_def2gh_g-001)



Prototype	Be <sub>17</sub> Ru <sub>3</sub>
AFLOW prototype label	A17B3_cI160_204_def2gh_g-001
ICSD	58735
Pearson symbol	cI160
Space group number	204
Space group symbol	$Im\bar{3}$
AFLOW prototype command	<pre>aflow --proto=A17B3_cI160_204_def2gh_g-001 --params=a,x1,x2,x3,y4,z4,y5,z5,y6,z6,x7,y7,z7</pre>

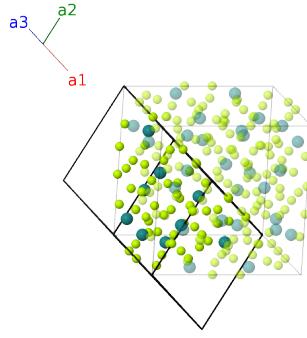
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**Other compounds with this structure**  
Os<sub>3</sub>Be<sub>17</sub>

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**Body-centered Cubic primitive vectors**

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



## Basis vectors

	Lattice coordinates	Cartesian coordinates	Wyckoff position	Atom type
$\mathbf{B}_1$ =	$x_1 \mathbf{a}_2 + x_1 \mathbf{a}_3$	$ax_1 \hat{\mathbf{x}}$	(12d)	Be I
$\mathbf{B}_2$ =	$-x_1 \mathbf{a}_2 - x_1 \mathbf{a}_3$	$-ax_1 \hat{\mathbf{x}}$	(12d)	Be I
$\mathbf{B}_3$ =	$x_1 \mathbf{a}_1 + x_1 \mathbf{a}_3$	$ax_1 \hat{\mathbf{y}}$	(12d)	Be I
$\mathbf{B}_4$ =	$-x_1 \mathbf{a}_1 - x_1 \mathbf{a}_3$	$-ax_1 \hat{\mathbf{y}}$	(12d)	Be I
$\mathbf{B}_5$ =	$x_1 \mathbf{a}_1 + x_1 \mathbf{a}_2$	$ax_1 \hat{\mathbf{z}}$	(12d)	Be I
$\mathbf{B}_6$ =	$-x_1 \mathbf{a}_1 - x_1 \mathbf{a}_2$	$-ax_1 \hat{\mathbf{z}}$	(12d)	Be I
$\mathbf{B}_7$ =	$\frac{1}{2}\mathbf{a}_1 + (x_2 + \frac{1}{2})\mathbf{a}_2 + x_2\mathbf{a}_3$	$ax_2 \hat{\mathbf{x}} + \frac{1}{2}a\hat{\mathbf{z}}$	(12e)	Be II
$\mathbf{B}_8$ =	$\frac{1}{2}\mathbf{a}_1 - (x_2 - \frac{1}{2})\mathbf{a}_2 - x_2\mathbf{a}_3$	$-ax_2 \hat{\mathbf{x}} + \frac{1}{2}a\hat{\mathbf{z}}$	(12e)	Be II
$\mathbf{B}_9$ =	$x_2\mathbf{a}_1 + \frac{1}{2}\mathbf{a}_2 + (x_2 + \frac{1}{2})\mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} + ax_2\hat{\mathbf{y}}$	(12e)	Be II
$\mathbf{B}_{10}$ =	$-x_2\mathbf{a}_1 + \frac{1}{2}\mathbf{a}_2 - (x_2 - \frac{1}{2})\mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{x}} - ax_2\hat{\mathbf{y}}$	(12e)	Be II
$\mathbf{B}_{11}$ =	$(x_2 + \frac{1}{2})\mathbf{a}_1 + x_2\mathbf{a}_2 + \frac{1}{2}\mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{y}} + ax_2\hat{\mathbf{z}}$	(12e)	Be II
$\mathbf{B}_{12}$ =	$-(x_2 - \frac{1}{2})\mathbf{a}_1 - x_2\mathbf{a}_2 + \frac{1}{2}\mathbf{a}_3$	$\frac{1}{2}a\hat{\mathbf{y}} - ax_2\hat{\mathbf{z}}$	(12e)	Be II
$\mathbf{B}_{13}$ =	$2x_3\mathbf{a}_1 + 2x_3\mathbf{a}_2 + 2x_3\mathbf{a}_3$	$ax_3 \hat{\mathbf{x}} + ax_3 \hat{\mathbf{y}} + ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{14}$ =	$-2x_3\mathbf{a}_3$	$-ax_3 \hat{\mathbf{x}} - ax_3 \hat{\mathbf{y}} + ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{15}$ =	$-2x_3\mathbf{a}_2$	$-ax_3 \hat{\mathbf{x}} + ax_3 \hat{\mathbf{y}} - ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{16}$ =	$-2x_3\mathbf{a}_1$	$ax_3 \hat{\mathbf{x}} - ax_3 \hat{\mathbf{y}} - ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{17}$ =	$-2x_3\mathbf{a}_1 - 2x_3\mathbf{a}_2 - 2x_3\mathbf{a}_3$	$-ax_3 \hat{\mathbf{x}} - ax_3 \hat{\mathbf{y}} - ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{18}$ =	$2x_3\mathbf{a}_3$	$ax_3 \hat{\mathbf{x}} + ax_3 \hat{\mathbf{y}} - ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{19}$ =	$2x_3\mathbf{a}_2$	$ax_3 \hat{\mathbf{x}} - ax_3 \hat{\mathbf{y}} + ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{20}$ =	$2x_3\mathbf{a}_1$	$-ax_3 \hat{\mathbf{x}} + ax_3 \hat{\mathbf{y}} + ax_3 \hat{\mathbf{z}}$	(16f)	Be III
$\mathbf{B}_{21}$ =	$(y_4 + z_4)\mathbf{a}_1 + z_4\mathbf{a}_2 + y_4\mathbf{a}_3$	$ay_4 \hat{\mathbf{y}} + az_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{22}$ =	$-(y_4 - z_4)\mathbf{a}_1 + z_4\mathbf{a}_2 - y_4\mathbf{a}_3$	$-ay_4 \hat{\mathbf{y}} + az_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{23}$ =	$(y_4 - z_4)\mathbf{a}_1 - z_4\mathbf{a}_2 + y_4\mathbf{a}_3$	$ay_4 \hat{\mathbf{y}} - az_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{24}$ =	$-(y_4 + z_4)\mathbf{a}_1 - z_4\mathbf{a}_2 - y_4\mathbf{a}_3$	$-ay_4 \hat{\mathbf{y}} - az_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{25}$ =	$y_4\mathbf{a}_1 + (y_4 + z_4)\mathbf{a}_2 + z_4\mathbf{a}_3$	$az_4 \hat{\mathbf{x}} + ay_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{26}$ =	$-y_4\mathbf{a}_1 - (y_4 - z_4)\mathbf{a}_2 + z_4\mathbf{a}_3$	$az_4 \hat{\mathbf{x}} - ay_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{27}$ =	$y_4\mathbf{a}_1 + (y_4 - z_4)\mathbf{a}_2 - z_4\mathbf{a}_3$	$-az_4 \hat{\mathbf{x}} + ay_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{28}$ =	$-y_4\mathbf{a}_1 - (y_4 + z_4)\mathbf{a}_2 - z_4\mathbf{a}_3$	$-az_4 \hat{\mathbf{x}} - ay_4 \hat{\mathbf{z}}$	(24g)	Be IV
$\mathbf{B}_{29}$ =	$z_4\mathbf{a}_1 + y_4\mathbf{a}_2 + (y_4 + z_4)\mathbf{a}_3$	$ay_4 \hat{\mathbf{x}} + az_4 \hat{\mathbf{y}}$	(24g)	Be IV
$\mathbf{B}_{30}$ =	$z_4\mathbf{a}_1 - y_4\mathbf{a}_2 - (y_4 - z_4)\mathbf{a}_3$	$-ay_4 \hat{\mathbf{x}} + az_4 \hat{\mathbf{y}}$	(24g)	Be IV

$\mathbf{B}_{31}$	$=$	$-z_4 \mathbf{a}_1 + y_4 \mathbf{a}_2 + (y_4 - z_4) \mathbf{a}_3$	$=$	$a y_4 \hat{\mathbf{x}} - a z_4 \hat{\mathbf{y}}$	(24g)	Be IV
$\mathbf{B}_{32}$	$=$	$-z_4 \mathbf{a}_1 - y_4 \mathbf{a}_2 - (y_4 + z_4) \mathbf{a}_3$	$=$	$-a y_4 \hat{\mathbf{x}} - a z_4 \hat{\mathbf{y}}$	(24g)	Be IV
$\mathbf{B}_{33}$	$=$	$(y_5 + z_5) \mathbf{a}_1 + z_5 \mathbf{a}_2 + y_5 \mathbf{a}_3$	$=$	$a y_5 \hat{\mathbf{y}} + a z_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{34}$	$=$	$-(y_5 - z_5) \mathbf{a}_1 + z_5 \mathbf{a}_2 - y_5 \mathbf{a}_3$	$=$	$-a y_5 \hat{\mathbf{y}} + a z_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{35}$	$=$	$(y_5 - z_5) \mathbf{a}_1 - z_5 \mathbf{a}_2 + y_5 \mathbf{a}_3$	$=$	$a y_5 \hat{\mathbf{y}} - a z_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{36}$	$=$	$-(y_5 + z_5) \mathbf{a}_1 - z_5 \mathbf{a}_2 - y_5 \mathbf{a}_3$	$=$	$-a y_5 \hat{\mathbf{y}} - a z_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{37}$	$=$	$y_5 \mathbf{a}_1 + (y_5 + z_5) \mathbf{a}_2 + z_5 \mathbf{a}_3$	$=$	$a z_5 \hat{\mathbf{x}} + a y_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{38}$	$=$	$-y_5 \mathbf{a}_1 - (y_5 - z_5) \mathbf{a}_2 + z_5 \mathbf{a}_3$	$=$	$a z_5 \hat{\mathbf{x}} - a y_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{39}$	$=$	$y_5 \mathbf{a}_1 + (y_5 - z_5) \mathbf{a}_2 - z_5 \mathbf{a}_3$	$=$	$-a z_5 \hat{\mathbf{x}} + a y_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{40}$	$=$	$-y_5 \mathbf{a}_1 - (y_5 + z_5) \mathbf{a}_2 - z_5 \mathbf{a}_3$	$=$	$-a z_5 \hat{\mathbf{x}} - a y_5 \hat{\mathbf{z}}$	(24g)	Be V
$\mathbf{B}_{41}$	$=$	$z_5 \mathbf{a}_1 + y_5 \mathbf{a}_2 + (y_5 + z_5) \mathbf{a}_3$	$=$	$a y_5 \hat{\mathbf{x}} + a z_5 \hat{\mathbf{y}}$	(24g)	Be V
$\mathbf{B}_{42}$	$=$	$z_5 \mathbf{a}_1 - y_5 \mathbf{a}_2 - (y_5 - z_5) \mathbf{a}_3$	$=$	$-a y_5 \hat{\mathbf{x}} + a z_5 \hat{\mathbf{y}}$	(24g)	Be V
$\mathbf{B}_{43}$	$=$	$-z_5 \mathbf{a}_1 + y_5 \mathbf{a}_2 + (y_5 - z_5) \mathbf{a}_3$	$=$	$a y_5 \hat{\mathbf{x}} - a z_5 \hat{\mathbf{y}}$	(24g)	Be V
$\mathbf{B}_{44}$	$=$	$-z_5 \mathbf{a}_1 - y_5 \mathbf{a}_2 - (y_5 + z_5) \mathbf{a}_3$	$=$	$-a y_5 \hat{\mathbf{x}} - a z_5 \hat{\mathbf{y}}$	(24g)	Be V
$\mathbf{B}_{45}$	$=$	$(y_6 + z_6) \mathbf{a}_1 + z_6 \mathbf{a}_2 + y_6 \mathbf{a}_3$	$=$	$a y_6 \hat{\mathbf{y}} + a z_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{46}$	$=$	$-(y_6 - z_6) \mathbf{a}_1 + z_6 \mathbf{a}_2 - y_6 \mathbf{a}_3$	$=$	$-a y_6 \hat{\mathbf{y}} + a z_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{47}$	$=$	$(y_6 - z_6) \mathbf{a}_1 - z_6 \mathbf{a}_2 + y_6 \mathbf{a}_3$	$=$	$a y_6 \hat{\mathbf{y}} - a z_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{48}$	$=$	$-(y_6 + z_6) \mathbf{a}_1 - z_6 \mathbf{a}_2 - y_6 \mathbf{a}_3$	$=$	$-a y_6 \hat{\mathbf{y}} - a z_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{49}$	$=$	$y_6 \mathbf{a}_1 + (y_6 + z_6) \mathbf{a}_2 + z_6 \mathbf{a}_3$	$=$	$a z_6 \hat{\mathbf{x}} + a y_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{50}$	$=$	$-y_6 \mathbf{a}_1 - (y_6 - z_6) \mathbf{a}_2 + z_6 \mathbf{a}_3$	$=$	$a z_6 \hat{\mathbf{x}} - a y_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{51}$	$=$	$y_6 \mathbf{a}_1 + (y_6 - z_6) \mathbf{a}_2 - z_6 \mathbf{a}_3$	$=$	$-a z_6 \hat{\mathbf{x}} + a y_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{52}$	$=$	$-y_6 \mathbf{a}_1 - (y_6 + z_6) \mathbf{a}_2 - z_6 \mathbf{a}_3$	$=$	$-a z_6 \hat{\mathbf{x}} - a y_6 \hat{\mathbf{z}}$	(24g)	Ru I
$\mathbf{B}_{53}$	$=$	$z_6 \mathbf{a}_1 + y_6 \mathbf{a}_2 + (y_6 + z_6) \mathbf{a}_3$	$=$	$a y_6 \hat{\mathbf{x}} + a z_6 \hat{\mathbf{y}}$	(24g)	Ru I
$\mathbf{B}_{54}$	$=$	$z_6 \mathbf{a}_1 - y_6 \mathbf{a}_2 - (y_6 - z_6) \mathbf{a}_3$	$=$	$-a y_6 \hat{\mathbf{x}} + a z_6 \hat{\mathbf{y}}$	(24g)	Ru I
$\mathbf{B}_{55}$	$=$	$-z_6 \mathbf{a}_1 + y_6 \mathbf{a}_2 + (y_6 - z_6) \mathbf{a}_3$	$=$	$a y_6 \hat{\mathbf{x}} - a z_6 \hat{\mathbf{y}}$	(24g)	Ru I
$\mathbf{B}_{56}$	$=$	$-z_6 \mathbf{a}_1 - y_6 \mathbf{a}_2 - (y_6 + z_6) \mathbf{a}_3$	$=$	$-a y_6 \hat{\mathbf{x}} - a z_6 \hat{\mathbf{y}}$	(24g)	Ru I
$\mathbf{B}_{57}$	$=$	$(y_7 + z_7) \mathbf{a}_1 + (x_7 + z_7) \mathbf{a}_2 + (x_7 + y_7) \mathbf{a}_3$	$=$	$a x_7 \hat{\mathbf{x}} + a y_7 \hat{\mathbf{y}} + a z_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{58}$	$=$	$-(y_7 - z_7) \mathbf{a}_1 - (x_7 - z_7) \mathbf{a}_2 - (x_7 + y_7) \mathbf{a}_3$	$=$	$-a x_7 \hat{\mathbf{x}} - a y_7 \hat{\mathbf{y}} + a z_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{59}$	$=$	$(y_7 - z_7) \mathbf{a}_1 - (x_7 + z_7) \mathbf{a}_2 - (x_7 - y_7) \mathbf{a}_3$	$=$	$-a x_7 \hat{\mathbf{x}} + a y_7 \hat{\mathbf{y}} - a z_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{60}$	$=$	$-(y_7 + z_7) \mathbf{a}_1 + (x_7 - z_7) \mathbf{a}_2 + (x_7 - y_7) \mathbf{a}_3$	$=$	$a x_7 \hat{\mathbf{x}} - a y_7 \hat{\mathbf{y}} - a z_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{61}$	$=$	$(x_7 + y_7) \mathbf{a}_1 + (y_7 + z_7) \mathbf{a}_2 + (x_7 + z_7) \mathbf{a}_3$	$=$	$a z_7 \hat{\mathbf{x}} + a x_7 \hat{\mathbf{y}} + a y_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{62}$	$=$	$-(x_7 + y_7) \mathbf{a}_1 - (y_7 - z_7) \mathbf{a}_2 - (x_7 - z_7) \mathbf{a}_3$	$=$	$a z_7 \hat{\mathbf{x}} - a x_7 \hat{\mathbf{y}} - a y_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{63}$	$=$	$-(x_7 - y_7) \mathbf{a}_1 + (y_7 - z_7) \mathbf{a}_2 - (x_7 + z_7) \mathbf{a}_3$	$=$	$-a z_7 \hat{\mathbf{x}} - a x_7 \hat{\mathbf{y}} + a y_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{64}$	$=$	$(x_7 - y_7) \mathbf{a}_1 - (y_7 + z_7) \mathbf{a}_2 + (x_7 - z_7) \mathbf{a}_3$	$=$	$-a z_7 \hat{\mathbf{x}} + a x_7 \hat{\mathbf{y}} - a y_7 \hat{\mathbf{z}}$	(48h)	Be VI
$\mathbf{B}_{65}$	$=$	$(x_7 + z_7) \mathbf{a}_1 + (x_7 + y_7) \mathbf{a}_2 + (y_7 + z_7) \mathbf{a}_3$	$=$	$a y_7 \hat{\mathbf{x}} + a z_7 \hat{\mathbf{y}} + a x_7 \hat{\mathbf{z}}$	(48h)	Be VI

<b>B<sub>66</sub></b>	=	$-(x_7 - z_7) \mathbf{a}_1 - (x_7 + y_7) \mathbf{a}_2 - (y_7 - z_7) \mathbf{a}_3$	=	$-ay_7 \hat{\mathbf{x}} + az_7 \hat{\mathbf{y}} - ax_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>67</sub></b>	=	$-(x_7 + z_7) \mathbf{a}_1 - (x_7 - y_7) \mathbf{a}_2 + (y_7 - z_7) \mathbf{a}_3$	=	$ay_7 \hat{\mathbf{x}} - az_7 \hat{\mathbf{y}} - ax_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>68</sub></b>	=	$(x_7 - z_7) \mathbf{a}_1 + (x_7 - y_7) \mathbf{a}_2 - (y_7 + z_7) \mathbf{a}_3$	=	$-ay_7 \hat{\mathbf{x}} - az_7 \hat{\mathbf{y}} + ax_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>69</sub></b>	=	$-(y_7 + z_7) \mathbf{a}_1 - (x_7 + z_7) \mathbf{a}_2 - (x_7 + y_7) \mathbf{a}_3$	=	$-ax_7 \hat{\mathbf{x}} - ay_7 \hat{\mathbf{y}} - az_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>70</sub></b>	=	$(y_7 - z_7) \mathbf{a}_1 + (x_7 - z_7) \mathbf{a}_2 + (x_7 + y_7) \mathbf{a}_3$	=	$ax_7 \hat{\mathbf{x}} + ay_7 \hat{\mathbf{y}} - az_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>71</sub></b>	=	$-(y_7 - z_7) \mathbf{a}_1 + (x_7 + z_7) \mathbf{a}_2 + (x_7 - y_7) \mathbf{a}_3$	=	$ax_7 \hat{\mathbf{x}} - ay_7 \hat{\mathbf{y}} + az_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>72</sub></b>	=	$(y_7 + z_7) \mathbf{a}_1 - (x_7 - z_7) \mathbf{a}_2 - (x_7 - y_7) \mathbf{a}_3$	=	$-ax_7 \hat{\mathbf{x}} + ay_7 \hat{\mathbf{y}} + az_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>73</sub></b>	=	$-(x_7 + y_7) \mathbf{a}_1 - (y_7 + z_7) \mathbf{a}_2 - (x_7 + z_7) \mathbf{a}_3$	=	$-az_7 \hat{\mathbf{x}} - ax_7 \hat{\mathbf{y}} - ay_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>74</sub></b>	=	$(x_7 + y_7) \mathbf{a}_1 + (y_7 - z_7) \mathbf{a}_2 + (x_7 - z_7) \mathbf{a}_3$	=	$-az_7 \hat{\mathbf{x}} + ax_7 \hat{\mathbf{y}} + ay_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>75</sub></b>	=	$(x_7 - y_7) \mathbf{a}_1 - (y_7 - z_7) \mathbf{a}_2 + (x_7 + z_7) \mathbf{a}_3$	=	$az_7 \hat{\mathbf{x}} + ax_7 \hat{\mathbf{y}} - ay_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>76</sub></b>	=	$-(x_7 - y_7) \mathbf{a}_1 + (y_7 + z_7) \mathbf{a}_2 - (x_7 - z_7) \mathbf{a}_3$	=	$az_7 \hat{\mathbf{x}} - ax_7 \hat{\mathbf{y}} + ay_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>77</sub></b>	=	$-(x_7 + z_7) \mathbf{a}_1 - (x_7 + y_7) \mathbf{a}_2 - (y_7 + z_7) \mathbf{a}_3$	=	$-ay_7 \hat{\mathbf{x}} - az_7 \hat{\mathbf{y}} - ax_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>78</sub></b>	=	$(x_7 - z_7) \mathbf{a}_1 + (x_7 + y_7) \mathbf{a}_2 + (y_7 - z_7) \mathbf{a}_3$	=	$ay_7 \hat{\mathbf{x}} - az_7 \hat{\mathbf{y}} + ax_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>79</sub></b>	=	$(x_7 + z_7) \mathbf{a}_1 + (x_7 - y_7) \mathbf{a}_2 - (y_7 - z_7) \mathbf{a}_3$	=	$-ay_7 \hat{\mathbf{x}} + az_7 \hat{\mathbf{y}} + ax_7 \hat{\mathbf{z}}$	(48h)	Be VI
<b>B<sub>80</sub></b>	=	$-(x_7 - z_7) \mathbf{a}_1 - (x_7 - y_7) \mathbf{a}_2 + (y_7 + z_7) \mathbf{a}_3$	=	$ay_7 \hat{\mathbf{x}} + az_7 \hat{\mathbf{y}} - ax_7 \hat{\mathbf{z}}$	(48h)	Be VI

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