Alignment analysis of Day155 Long New(2).root (1.57 Mevents)

Sector 2 ladder #1 (inner)

$\Delta x = -250$ $\Delta y = -200$ $\Delta z = 0$ no clear rots

#2 $\Delta x = -500$ $\Delta y = -250$ $\Delta z = -380$

dX4a $\alpha = 6.5$ $\beta = -6$

dY4a $= 6.5$ -6 $\gamma = -10$ (?!)

#3 $\Delta x = -200$ $\Delta y = -200$ $\Delta z =$ not clear

dx4a, dY4a etc not clear

dZ4a $\alpha = 4$ (?) $\beta = \gamma = ?$

#4 $\Delta x = -170$ $\Delta y = -200$ $\Delta z = -500$

dx4a $\alpha = 4.5$ $\beta = -10$ (?)

dY4a $\alpha = 4.5$ $\beta = -11$ (?) $\gamma = -5$ (?)

dZ4y $\gamma = -24$ (?!!)

Sector 4 ladder #1

$\Delta x = 80$ $\Delta y = -300$ $\Delta z = -300$

dx $\alpha = -3$ $\beta = 0$

dY $\alpha = 1$? $\gamma = 13$ (?)

dZ $\gamma = 28$ (?)

#2 $\Delta x = 30$ $\Delta y = 150$ $\Delta z = -300$

dx $\alpha = 0$ $\beta = 0$

dY $\alpha = 1$ $\beta = 5$ (o?)

dZ $\alpha = -30$!!? $\beta = 8$!!!? $\gamma = -12$ (o?)

$\gamma = -24$ (!!?)

#3 $\Delta x = -80$ $\Delta y = 220$ $\Delta z = -420$

dX $\alpha = 1$ $\beta = 1.5$ (?)

dY $\alpha = 1$ $\beta = 1.5$ (?) $\gamma = -10$ (?)

dZ $\gamma = -23$ (?!)

#4 $\Delta x = -200$ $\Delta y = 300$ $\Delta z = 400$

dX $\alpha = 1$ $\beta = 1$

dY $\alpha = 1$ $\beta = 1$ $\gamma = -15$ (!!!)

dZ $\gamma = -30$ (!!!)

Sector 7

ladder #1 $\Delta x = -430$ $\Delta y = -280$ $\Delta z = +50$

$\beta = 8.5, 9, 9, 8.3$

dx => $\alpha = 15$ $\beta = 6$

dy $\alpha = 4$ $\beta = -14$ $\gamma = +0$

dz $\alpha = 5$ $\beta = 8$ $\gamma = -70$

$\alpha = -23, -21, (-4.5)$

#2 $\Delta x = -800$ $\Delta y = -350$ $\Delta z = 350$

$\beta = 8.5, 9.5, 11, 8.7, 8.3, 9.4, 6.1, 7, 10, 15$

$6.2, 6.8, -2.5, 6.3, 1.2, 0, 6.2, 3.8, 2, 6.5$

dx $\alpha = -14$ $\beta = 14$

dy $\alpha = -14$ $\beta = 14$ $\gamma = +0$

dz $\alpha = -11$ $\beta = -24$ $\gamma = 28$

$\beta = 8.5, 9.5$

$\gamma = 48, 56, \cancel{63}\ 48$

$+5, -4,$

20 #3 $\Delta x = -450$ $\Delta y = -350$ $\Delta z = 200$

$\beta = 10, 11, 9$

dx => $\alpha = -13$ $\beta = 19$

dy $\alpha = -13$ $\beta = 19$ $\gamma = 0$!

dz $\alpha = -5$ $\beta = -6$? $\gamma = 35$!!

21 #4 $\Delta x = -200$ $\Delta y = -250$ $\Delta z = 50$

$\beta = 9.5, 11, 11, 11$

dx $\alpha = -12$ $\beta = 29$

dy $\alpha = -12$ $\beta = 30$ $\gamma = 0$!

dz $\alpha = -16$! $\beta = -12$! $\gamma = 45$!!

duvP → beta (β?)

S4 outer dx vs jx*(-vyz+vzy) → alpha

dy not reliable → flips also sign

dz semi-ok

good for beta +dz

inner dx -alpha -beta

dy, dz same comments

duOvertuPvP → (α) OK

dvOvertvPvP → (α) OK

duOvertuPuP → (γ) OK

dvOvertvPuP → (γ) OK

S7 outer dx (and dz) alpha

dy not

S2 outer

inner dx(-alpha) -beta

dz fine

dy not

same inner