Included Angle Between Tips
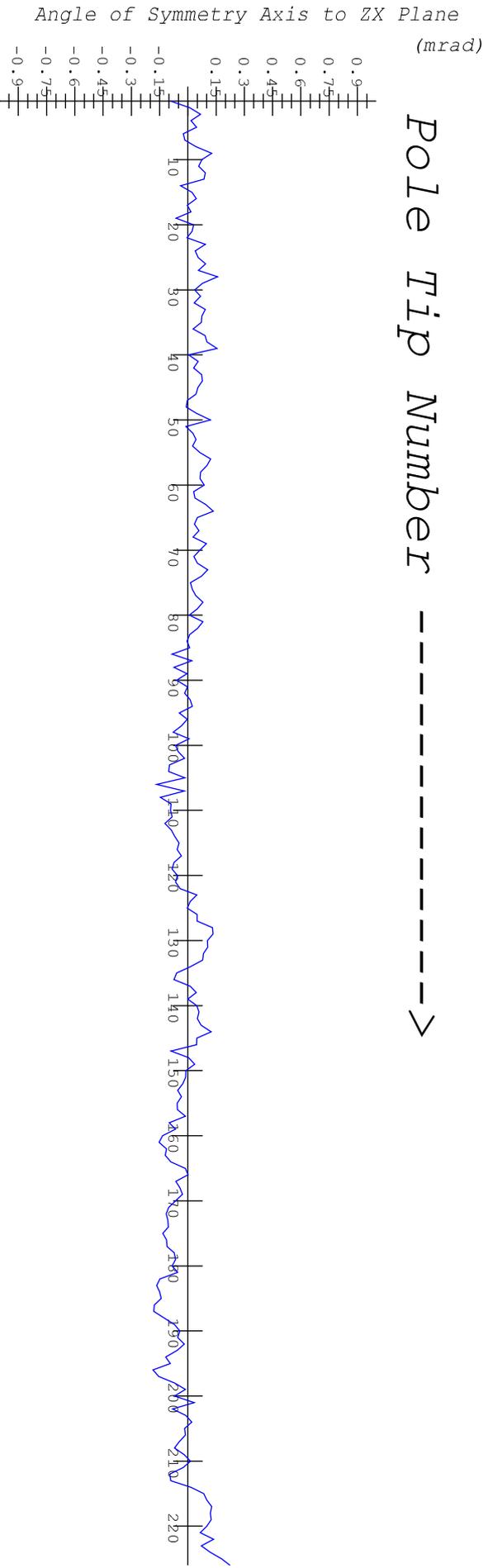
Angle of Symmetry Axis to ZX Plane

(mrad)

Pole Tip Number ---------------->

Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
Inprocess Shim Check
6.8mm Gap Undulator

DATE:05-APR-2012
UNDULATOR #32
DATASET #0005
PROGRAM VERSION 3.0

Pole Tip Number ------------>

X

Undulator Pole Tip Location
Inprocess Shim Check
6.8mm Gap Undulator
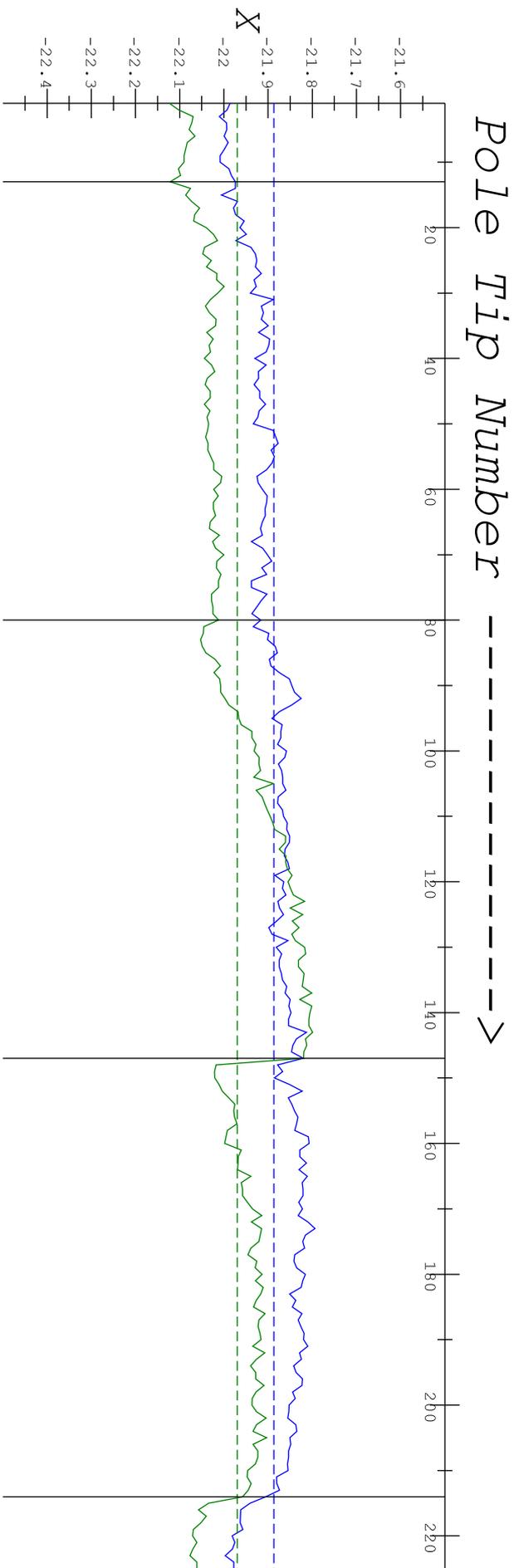
X values in mm
Green Solid = Point on front face of Upper Pole Tip 11.5mm above Magnetic C/L
Green Dash = Mean value of all Upper Pole Tips 11.5mm above Magnetic C/L   Mean value Upper Pole Tips =   -21.970
Blue Solid = Point on front face of Lower Pole Tip 11.5mm below Magnetic C/L
Blue Dash = Mean value of all Lower Pole Tips 11.5mm below Magnetic C/L   Mean value Lower Pole Tips =   -21.887
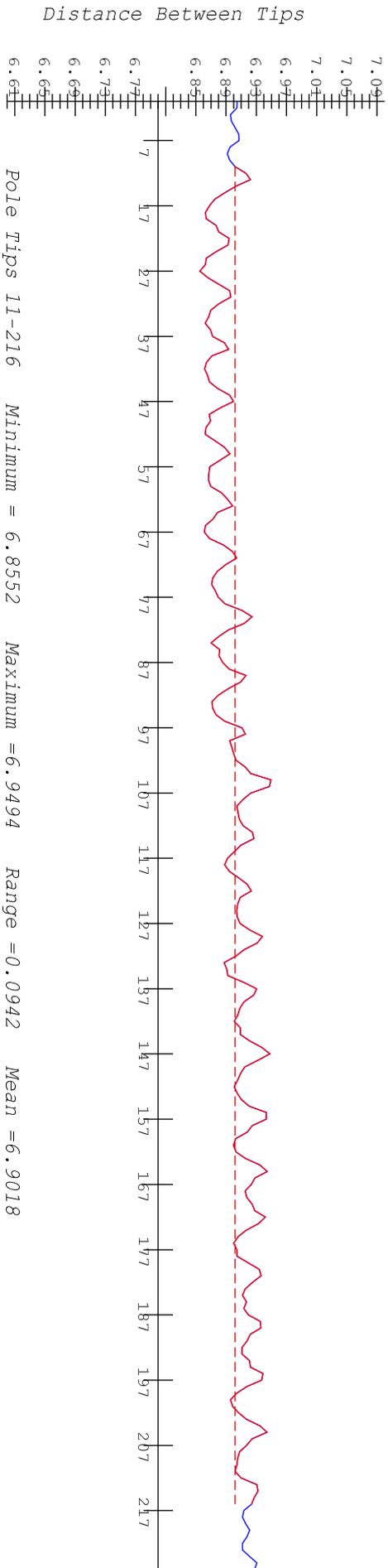
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Pole Tip Number ----------->

Distance Between Tips

in mm

Pole Tips 11-216   Minimum = 6.8552   Maximum =6.9494   Range =0.0942   Mean =6.9018

Symmetery Point between Tips

10^{-3}

Pole Tips 11-216   Minimum = -0.0398   Maximum =0.0424   Range =0.0822   Mean =-0.0089
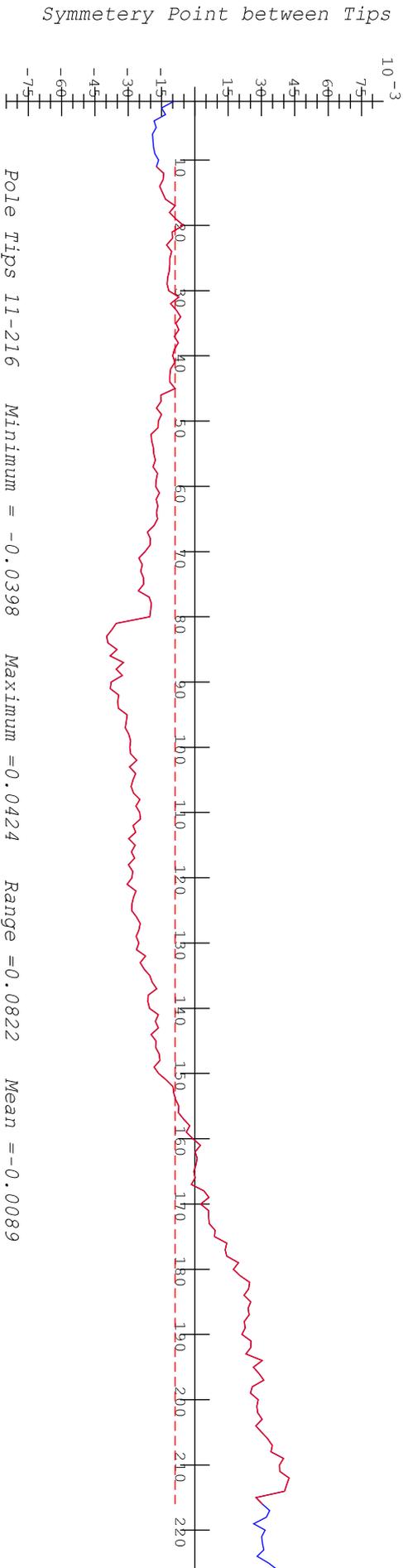
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L

Broken Red line is Mean Value of Symmetry Points and Mean Value of Gap Distance

Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L

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Undulator Pole Tip Location
Inprocess Shim Check
6.8mm Gap Undulator

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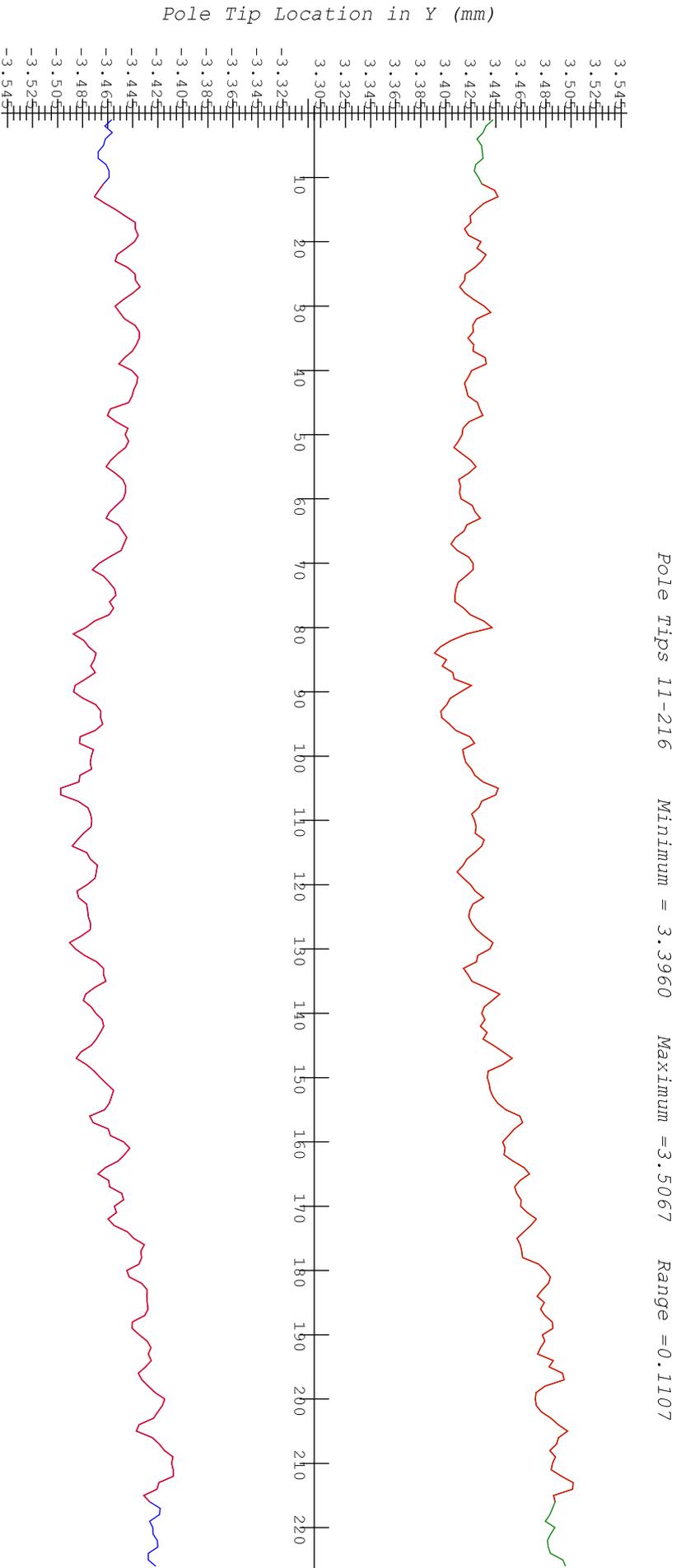
Undulator Pole Tip Location

Inprocess Shim Check
6.8 mm Gap Undulator

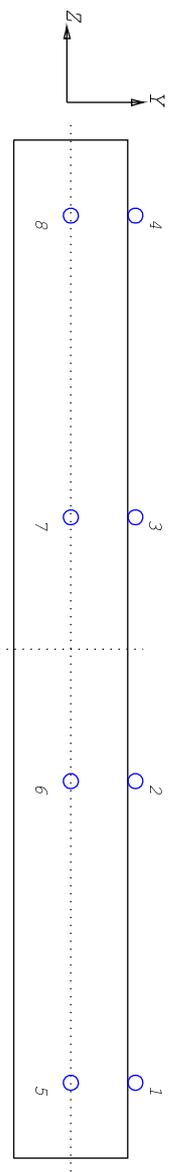Pole Tip Location in Y (mm)

Pole Tip Number ----------->

Green + Red = The position of the Upper Pole Tips at Magnetic C\L (Pole Tips 11-216 in Red)
Blue + Red = The position of the Lower Pole Tips at Magnetic C\L (Pole Tips 11-216 in Red)

Pole Tips 11-216   Minimum = 3.3960   Maximum = 3.5067   Range = 0.1107

Pole Tips 11-216   Minimum = -3.5026   Maximum = -3.4125   Range = 0.0900

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Undulator Dimensional Fiducialization
Inprocess Shim Check
6.8MM Gap Undulator

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Top Magnetic Structure		
Bottom Magnetic Structure		
Strongback		

	C\L Offset	Length
Top Magnetic Structure	-0.581	3380.818
Bottom Magnetic Structure	-0.493	3380.634
Strongback	0.000	3399.796

Dimensions in mm   Angles in mrad

TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.1305	179.8543	-1558.478
2	-0.1075	179.6966	-584.9774
3	-0.0486	179.7033	591.0246
4	-0.0463	179.7756	1561.8743
5	0.2255	0.0825	-1558.602
6	0.2810	0.1157	-584.9042
7	0.2757	0.1327	591.0623
8	0.3011	0.1470	1561.8642