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

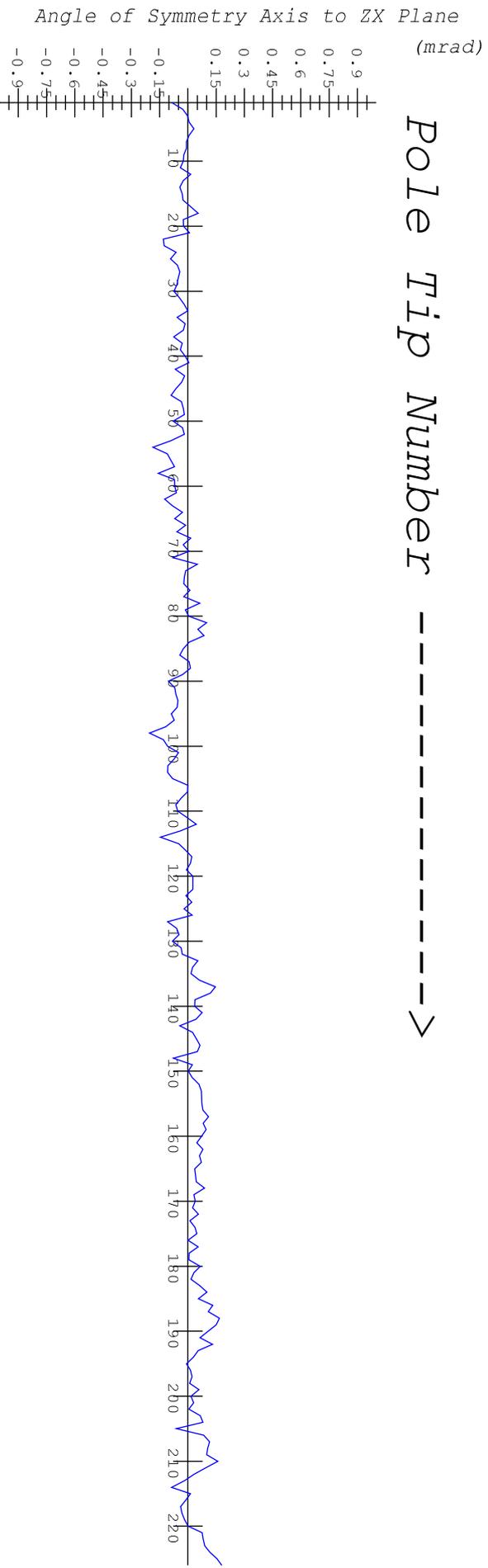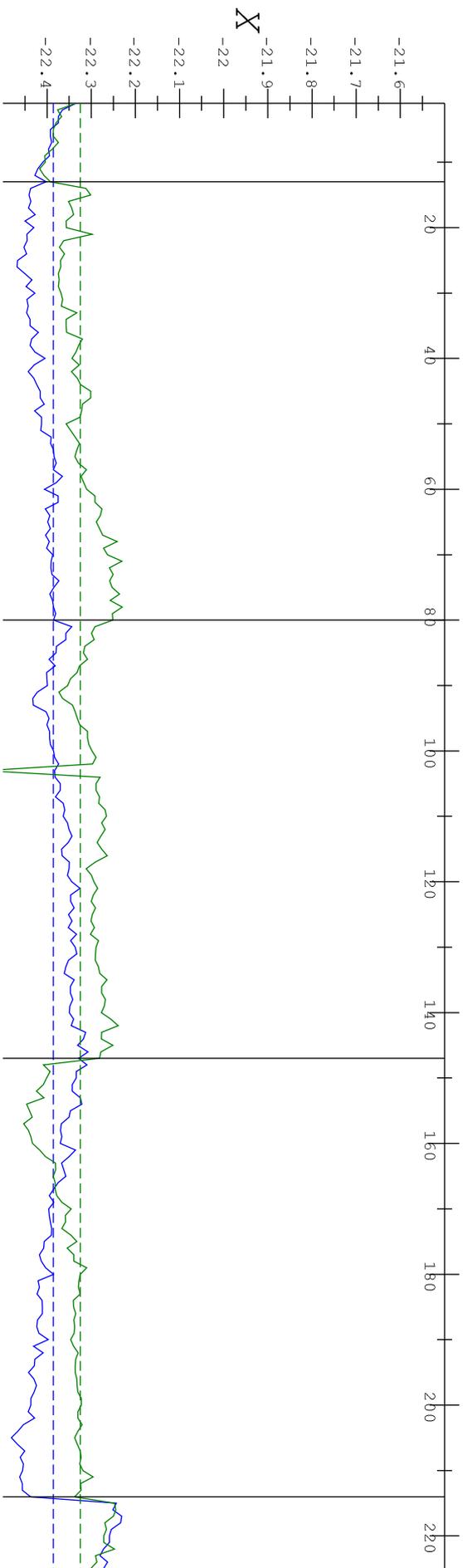## Included Angle Between Tips

Angle of Symmetry Axis to ZX Plane

(mrad)

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

SLAC
NATIONAL ACCELERATOR LABORATORY
MMF GRE 45129

Undulator Pole Tip Angles
Inprocess Shim Check
Wide Gap Undulator

Pole Tip Number ------->

X

Undulator Pole Tip Location
Inprocess Shim Check
Wide Gap Undulator

SLAC
NATIONAL ACCELERATOR LABORATORY
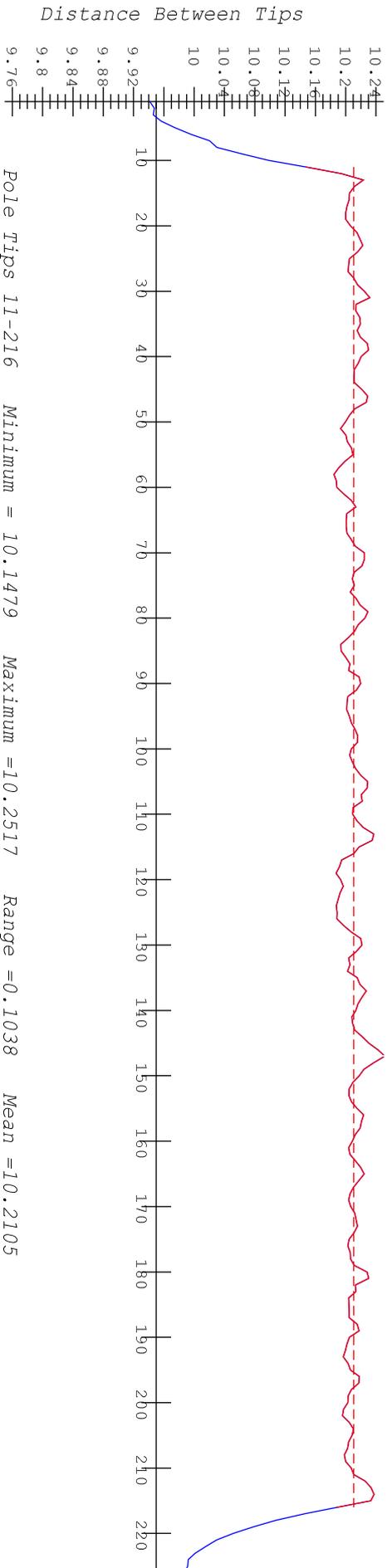MMF GRE 45129

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 = -22.325
Blue Solid = Point on front face of Lower Pole Tip 11.5mm below Magnetic C/L
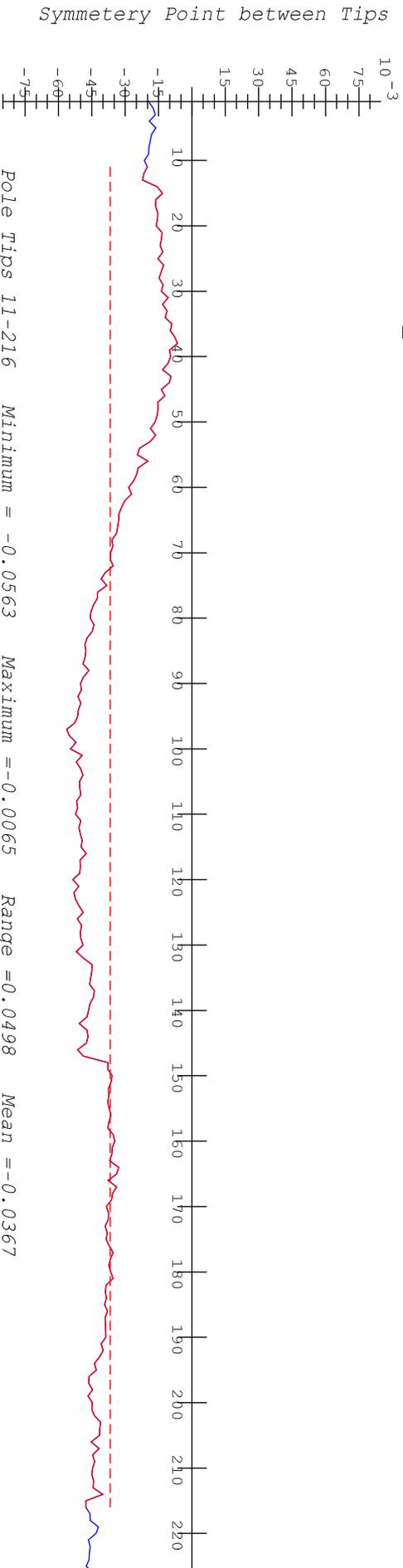Blue Dash = Mean value of all Lower Pole Tips 11.5mm below Magnetic C/L   Mean value Lower Pole Tips = -22.386

DATE:17-MAY-2010
UNDULATOR # 18
DATASET # 0003
PROGRAM VERSION 2.0

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

Distance Between Tips

in mm

Pole Tips 11-216   Minimum = 10.1479   Maximum =10.2517   Range =0.1038   Mean =10.2105

Symmetery Point between Tips

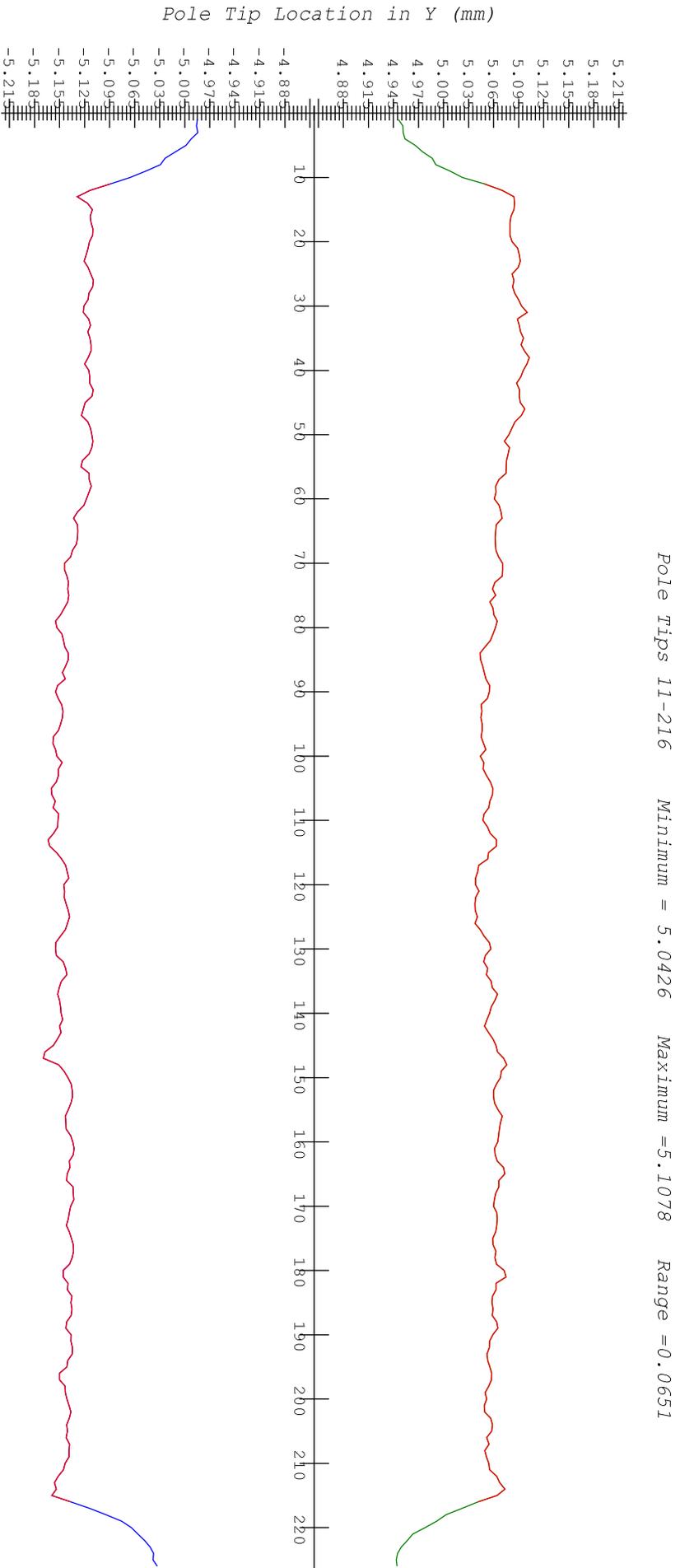Pole Tips 11-216   Minimum = -0.0563   Maximum =-0.0065   Range =0.0498   Mean =-0.0367

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

SLAC

NATIONAL ACCELERATOR LABORATORY

MMF GRE 45129

Undulator Pole Tip Location
Inprocess Shim Check
Wide Gap Undulator

DATE:17-MAY-2010
UNDULATOR # 18
DATASET   # 0003
PROGRAM VERSION 2.0

Pole Tip Location in Y (mm)

Pole Tips 11-216   Minimum = 5.0426   Maximum =5.1078   Range =0.0651

Pole Tips 11-216   Minimum = -5.1747   Maximum =-5.0940   Range =0.0807

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)

Undulator Pole Tip Location
Inprocess Shim Check
Wide Gap Undulator

SLAC
NATIONAL ACCELERATOR LABORATORY
MMF GRE 45129

DATE:17-MAY-2010
UNDULATOR # 18
DATASET # 0003
PROGRAM VERSION 2.0

SLAC
NATIONAL ACCELERATOR LABORATORY

MMF GRE 45129

Undulator Dimensional Fiducialization
Inprocess Shim Check
Wide Gap Undulator

Top Magnetic Structure
Bottom Magnetic Structure
Strongback

	C\L Offset	Length
Top Magnetic Structure	-0.412	3380.619
Bottom Magnetic Structure	-0.436	3380.881
Strongback	0.000	3399.796

Dimensions in mm   Angles in mrad

TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.1357	179.8550	-1558.493
2	-0.1257	179.6833	-584.9994
3	-0.0970	179.6695	591.0086
4	-0.1168	179.7274	1561.8488
5	248.2139	0.0717	-1558.623
6	248.2540	0.0902	-584.9254
7	248.2225	0.0835	591.0343
8	248.2230	0.0911	1561.8456

Z
Y

1 2 3 4
5 6 7 8