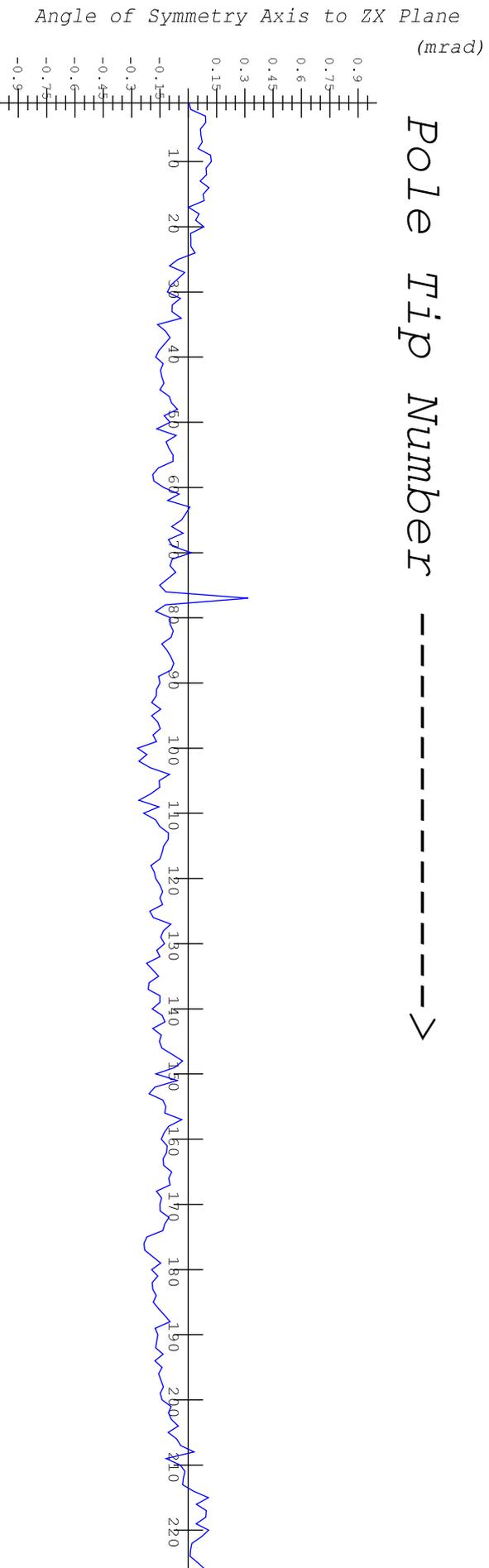


Pole Tip Number ----->



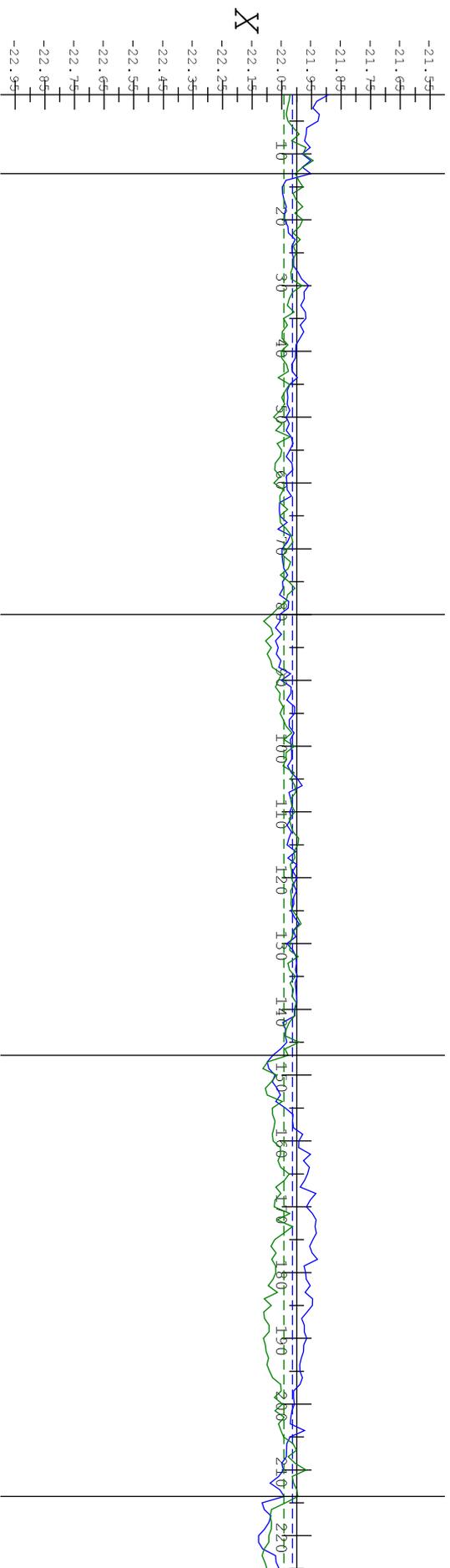
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 11-OCT-2007
 UNDULATOR # 37
 DATASET # 0001
 PROGRAM VERSION 2.3

Pole Tip Number ----->



X values in mm

Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L

Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.043

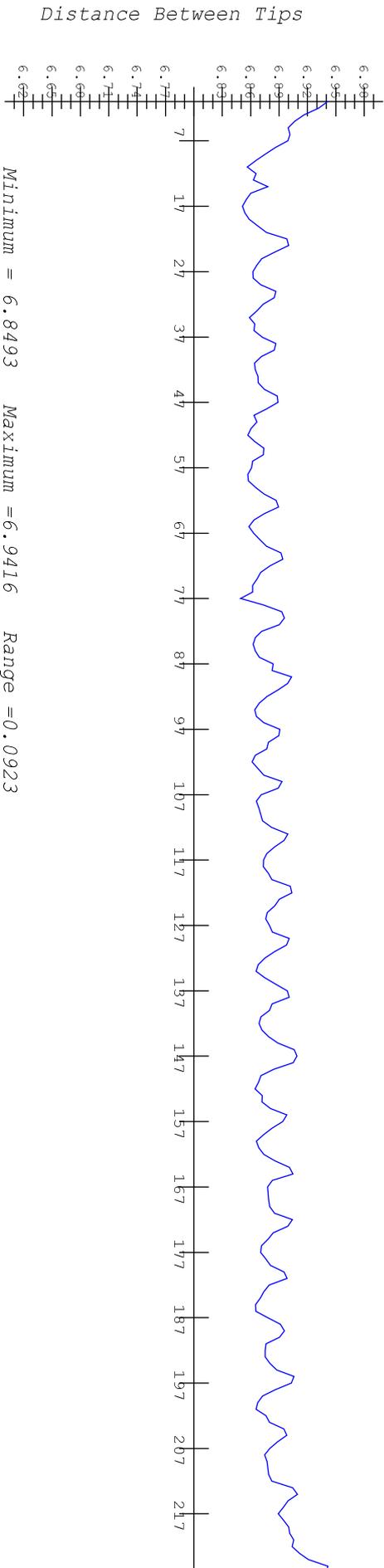
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.014

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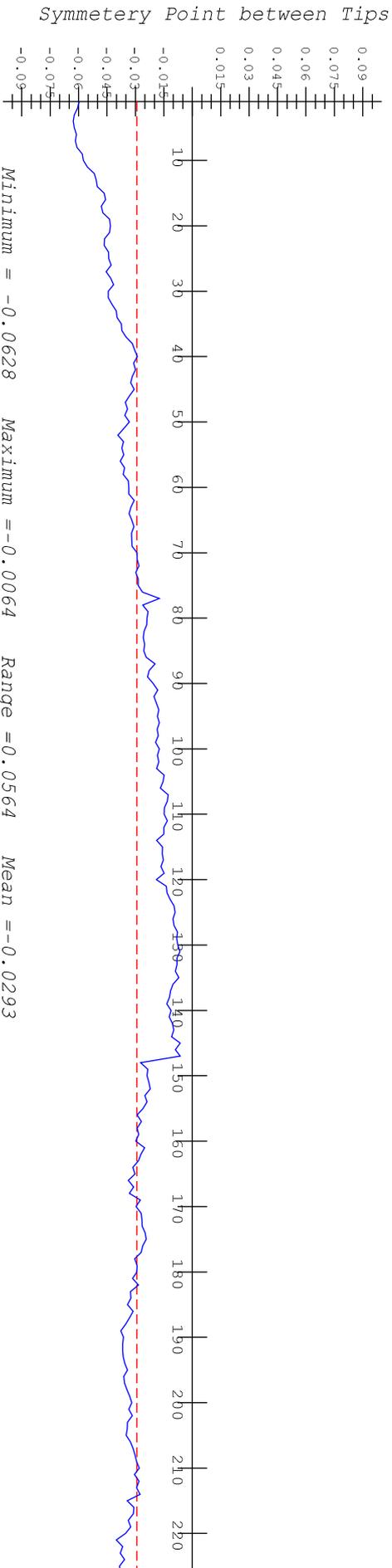
Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 11-OCT-2007
 UNDUULATOR # 37
 DATASET # 0001
 PROGRAM VERSION 2.3



in mm

Pole Tip Number ----->



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

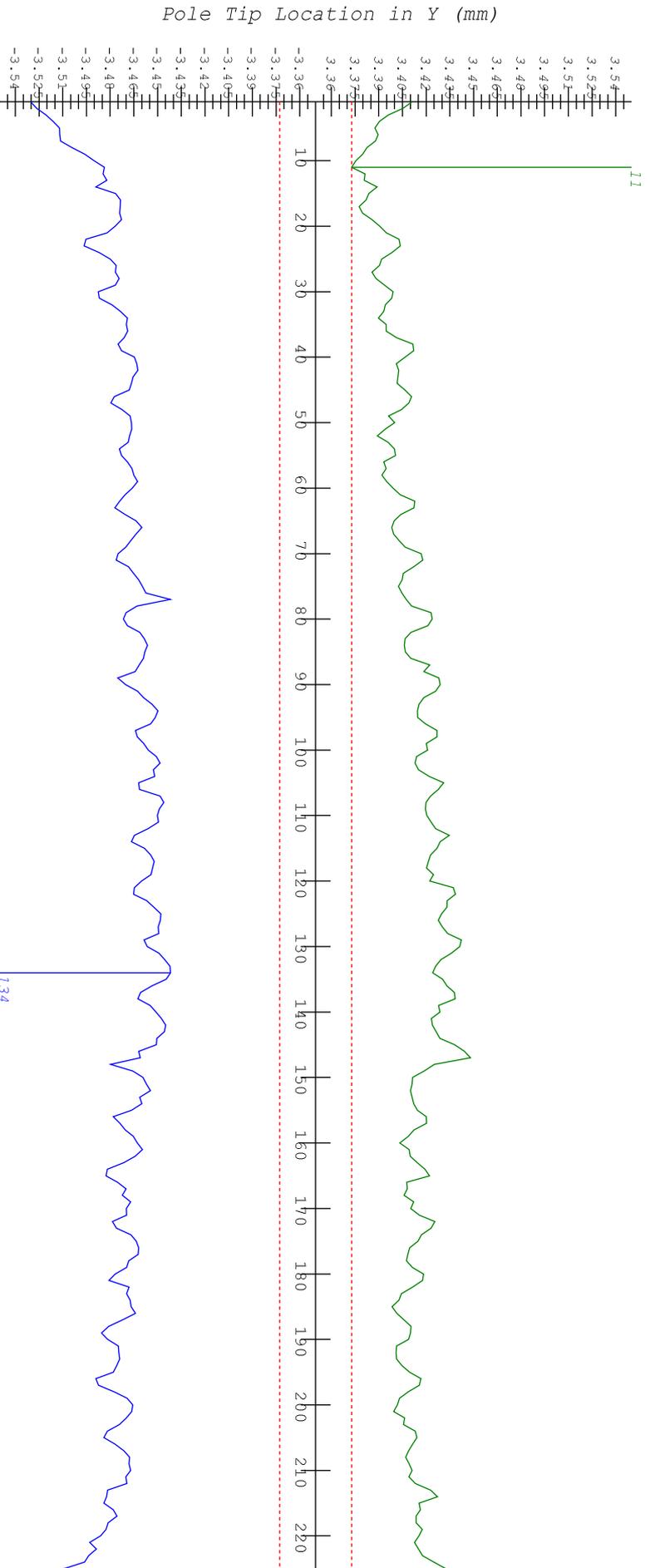
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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 11-OCT-2007
 UNDUULATOR # 37
 DATASET # 0001
 PROGRAM VERSION 2.3

Maximum Chamber Gap = 6.7455

Minimum = 3.3728 Maximum = 3.4480 Range = 0.0753



Pole Tip Number ----->

Green = The position of the Upper Pole Tips at Magnetic C\L
Blue = The position of the Lower Pole Tips at Magnetic C\L
Max. Chamber Gap = The maximum width vacuum chamber that will fit centered on the Magnetic C\L (2*Min. Dev. from C\L)

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Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 11-OCT-2007
UNDULATOR # 37
DATASET # 0001
PROGRAM VERSION 2.3



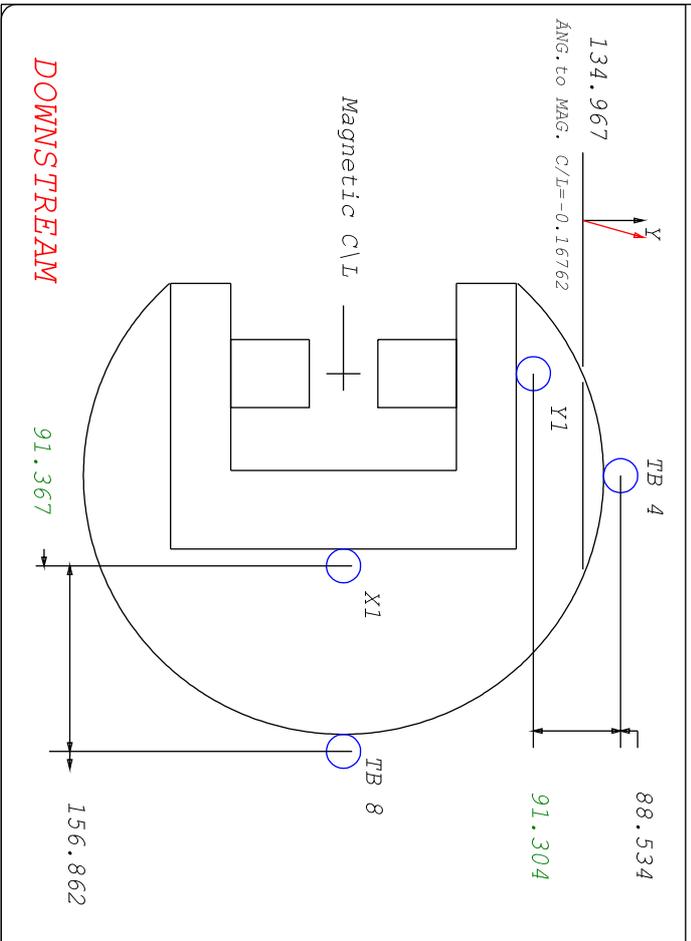
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0519	179.7521	-1558.321
2	0.2428	179.8666	-584.6988
3	-0.1014	179.7386	591.3837
4	0.1370	179.8381	1562.2588
5	248.3227	-0.0366	-1558.214
6	248.2416	0.0207	-584.6531
7	248.2581	-0.0800	591.4353
8	248.2289	-0.1110	1562.1335

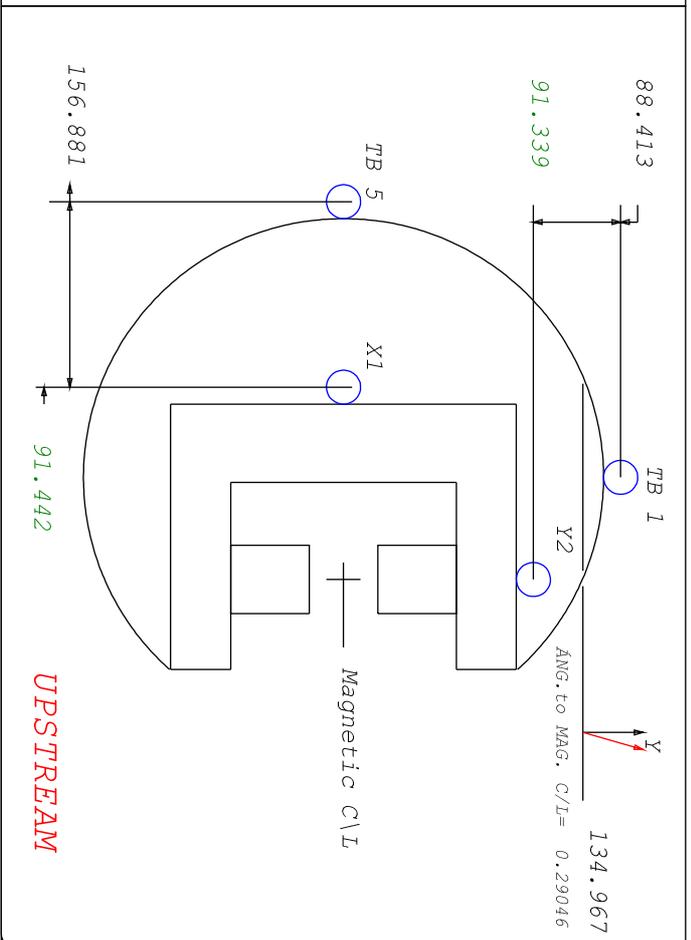
	C/L Offset	Length
Top Magnetic Structure	0.022	3381.087
Bottom Magnetic Structure	-0.022	3380.963
Strongback	0.423	3399.949

Dimensions in mm

Angles in mrad



DOWNSTREAM

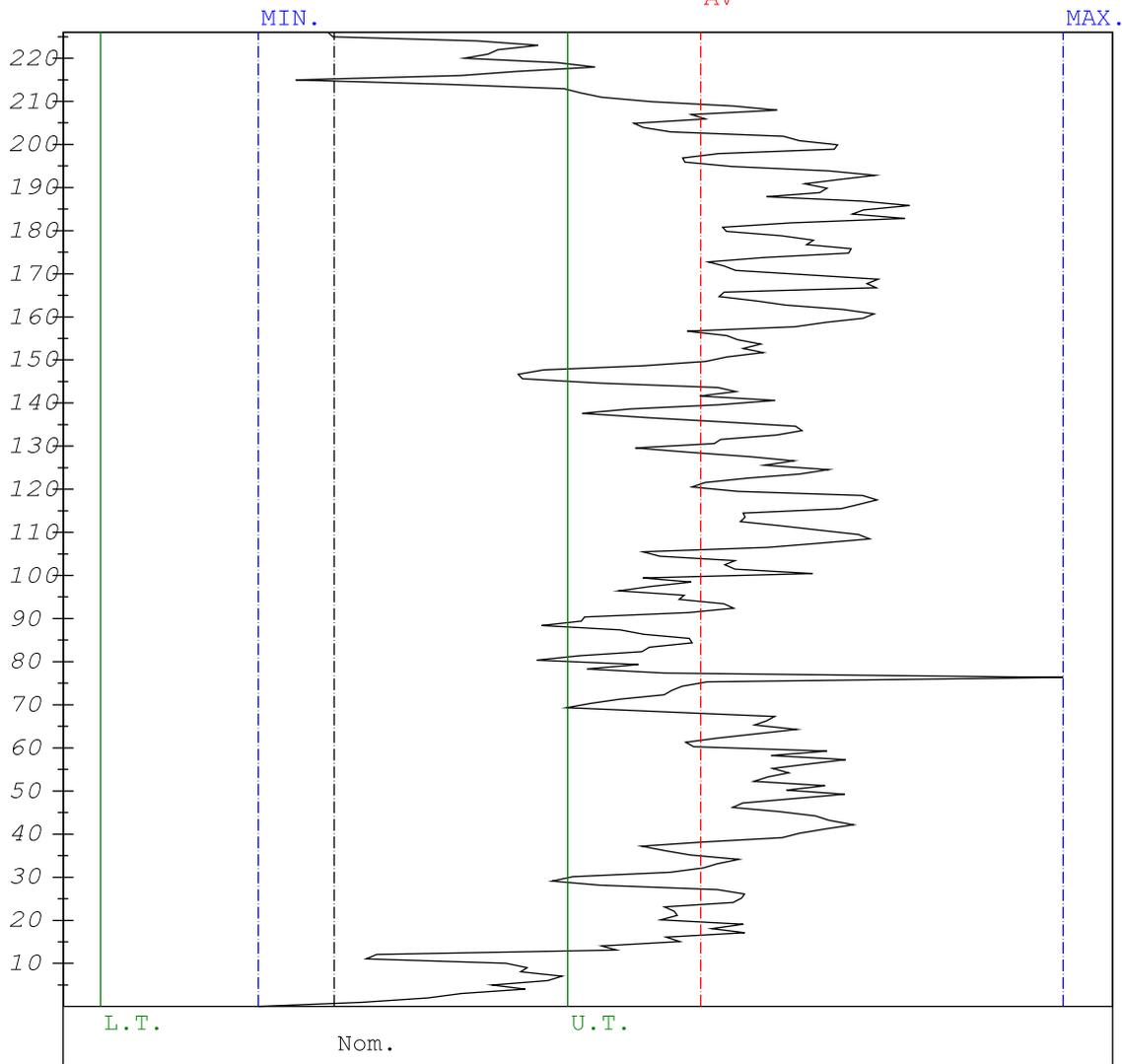
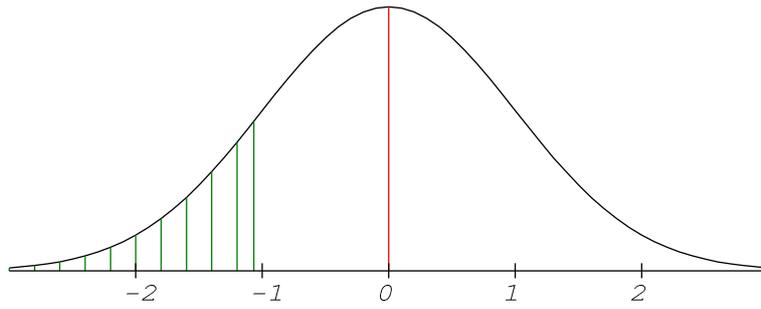


UPSTREAM

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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 11-OCT-2007
UNDULATOR # 37
DATASET # 0001
PROGRAM VERSION 2.3



Nominal : 4.5000	Averag : 5.2846	Cent.-Dev. : 0.7846
Up. Tol. : 0.5	Maximum : 6.0598	U.Tol.Ex. > : 85.7 %
Low.Tol. : -0.5	Minimum : 4.3375	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2669	In Tolerance: 14.3 %
Outlier : 0	Distribution : NOR	Dimension : mrad

<p>SLAC LCLS-MMF LEITZ CMM</p>	<p>Statistical Evaluation Pole Tip Gap Angle Post Magnetic Alignment</p>	<p>DATE:11-OCT-2007 UNDULATOR # 37 DATASET # 0001 PROGRAM VERSION 2.3</p>
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