

Pole Tip Number ----->

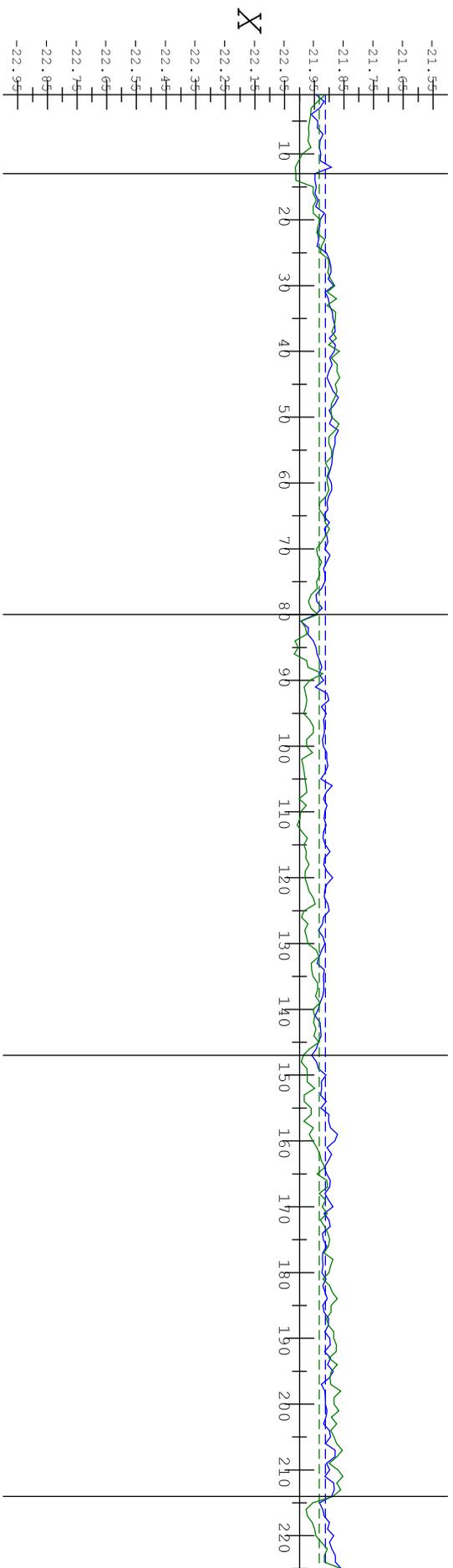
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 13-OCT-2008
 UNDULATOR # 21
 DATASET # 0002
 PROGRAM VERSION 2.7

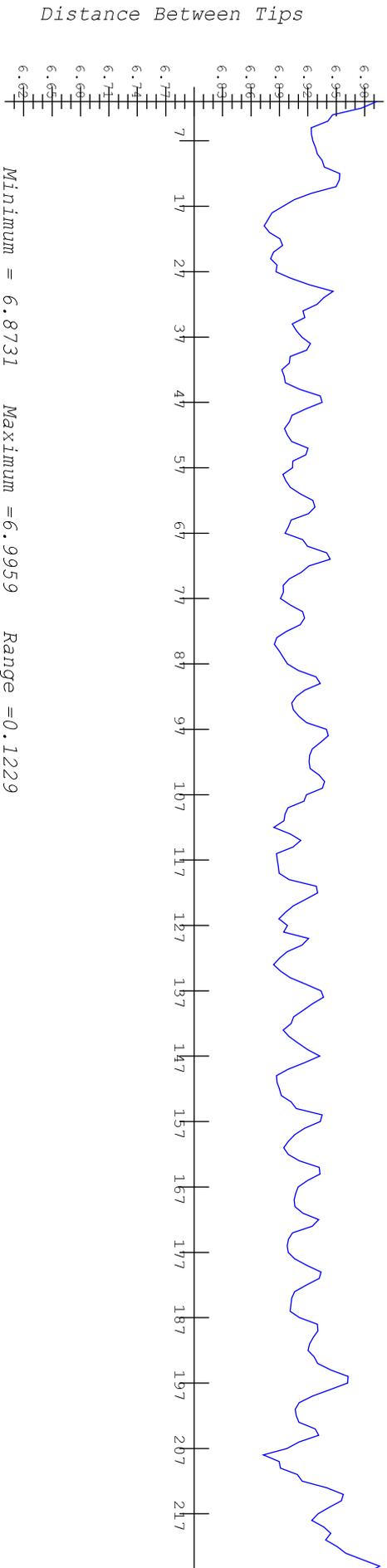
Pole Tip Number ----->



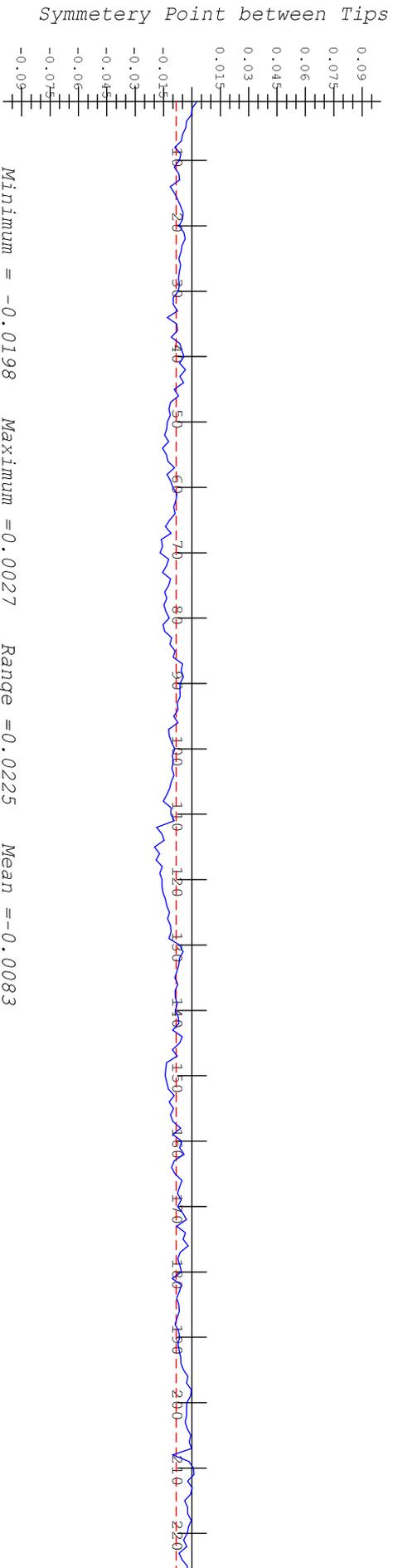
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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 13-OCT-2008
 UNDULATOR # 21
 DATASET # 0002
 PROGRAM VERSION 2.7



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

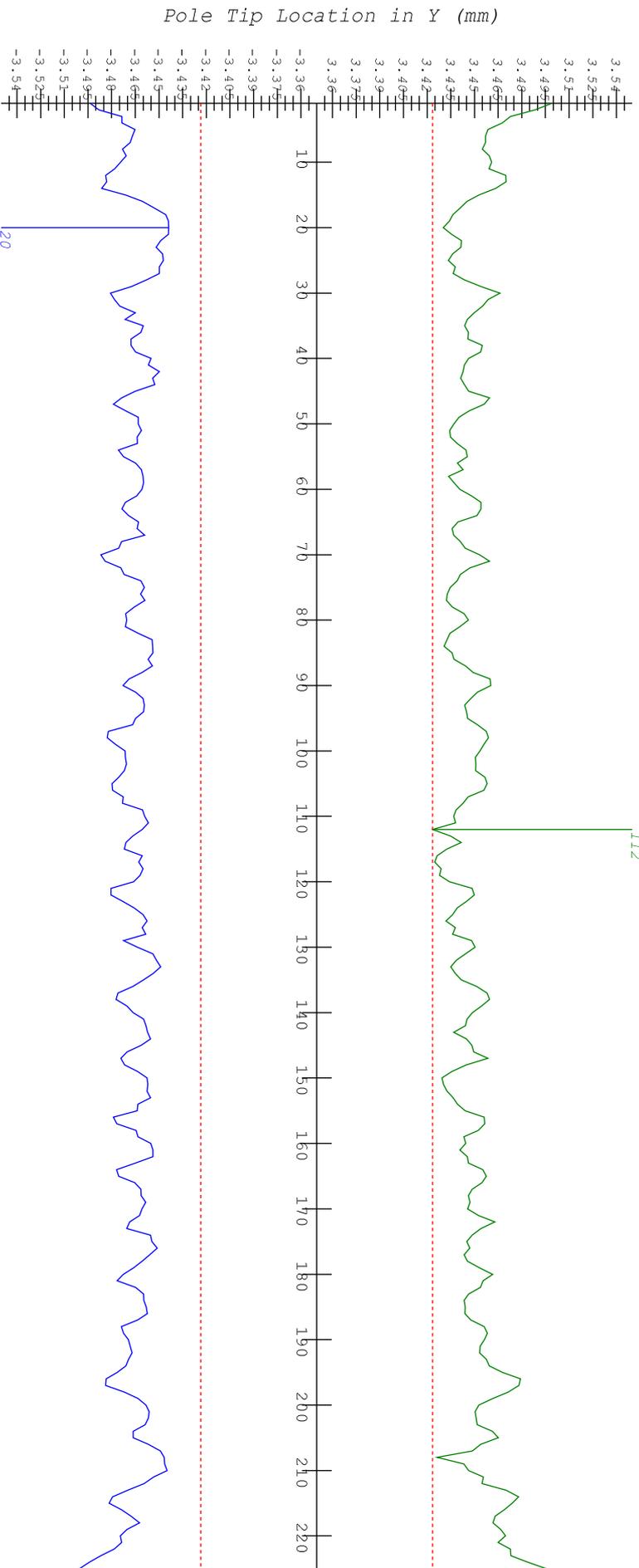
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Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8469

Minimum = 3.4235 Maximum = 3.4991 Range = 0.0756



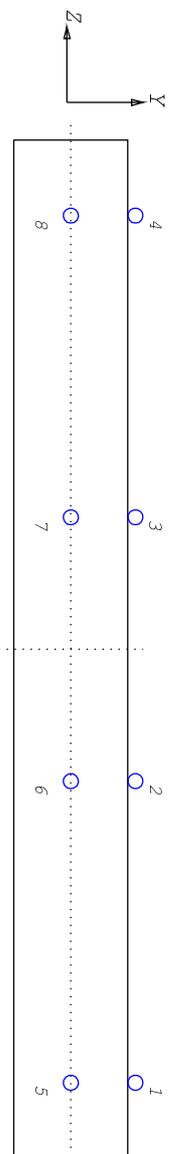
Pole Tip Number ----->

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: 13-OCT-2008
UNDULATOR # 21
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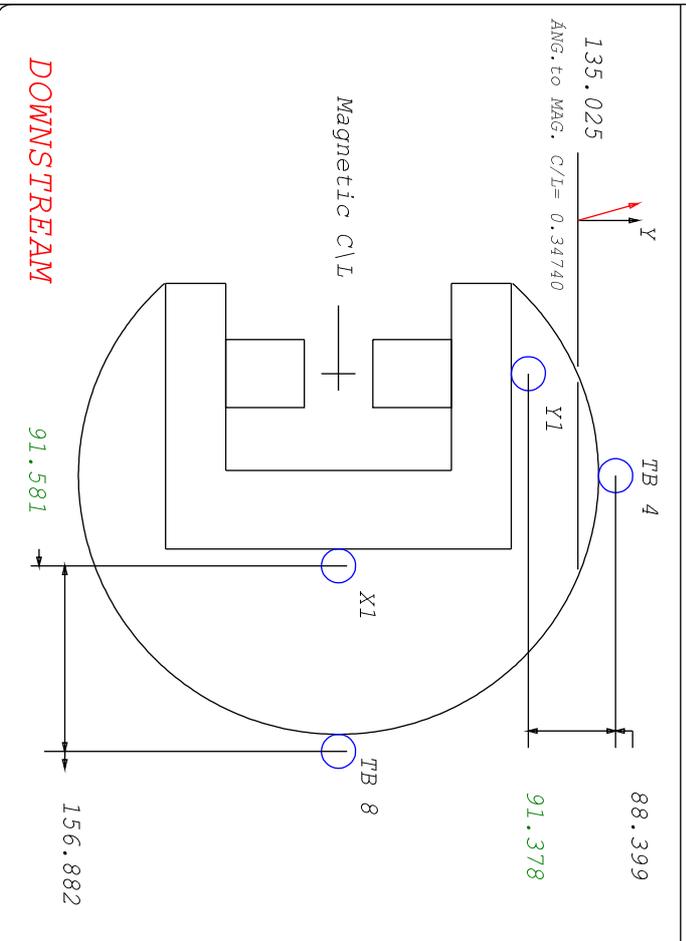
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2013	179.7788	-1558.171
2	0.1646	179.8469	-584.5254
3	0.1689	179.7128	591.5689
4	0.2695	179.7768	1562.3244
5	248.3917	-0.0110	-1557.986
6	248.3889	0.0211	-584.3709
7	248.4078	0.0347	591.5359
8	248.4632	-0.0209	1562.2527

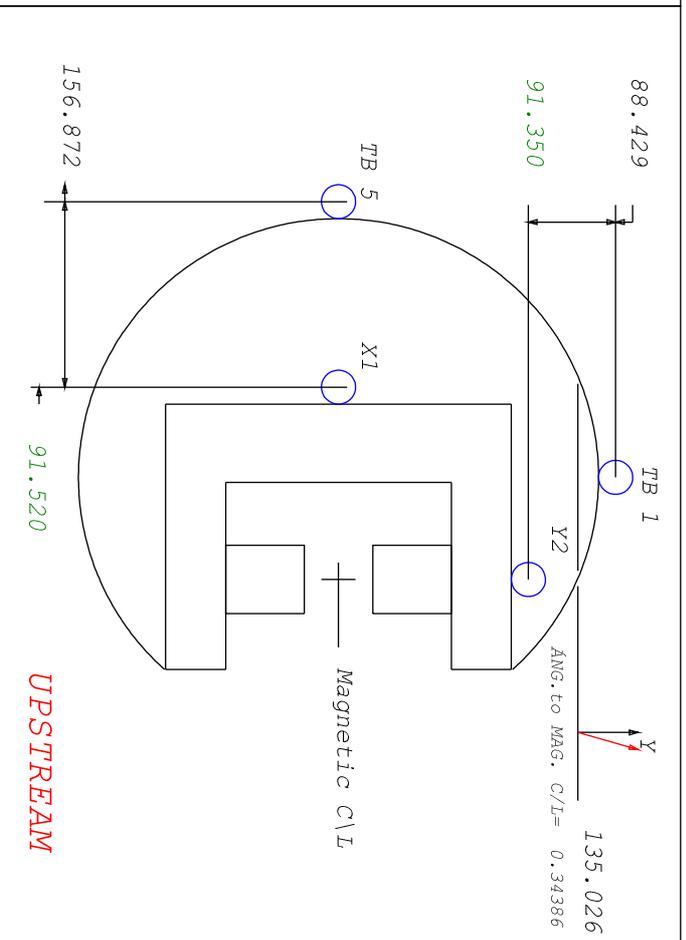
	C/L Offset	Length
Top Magnetic Structure	0.002	3380.909
Bottom Magnetic Structure	-0.002	3380.923
Strongback	0.405	3399.864

Dimensions in mm

Angles in mrad



DOWNSTREAM

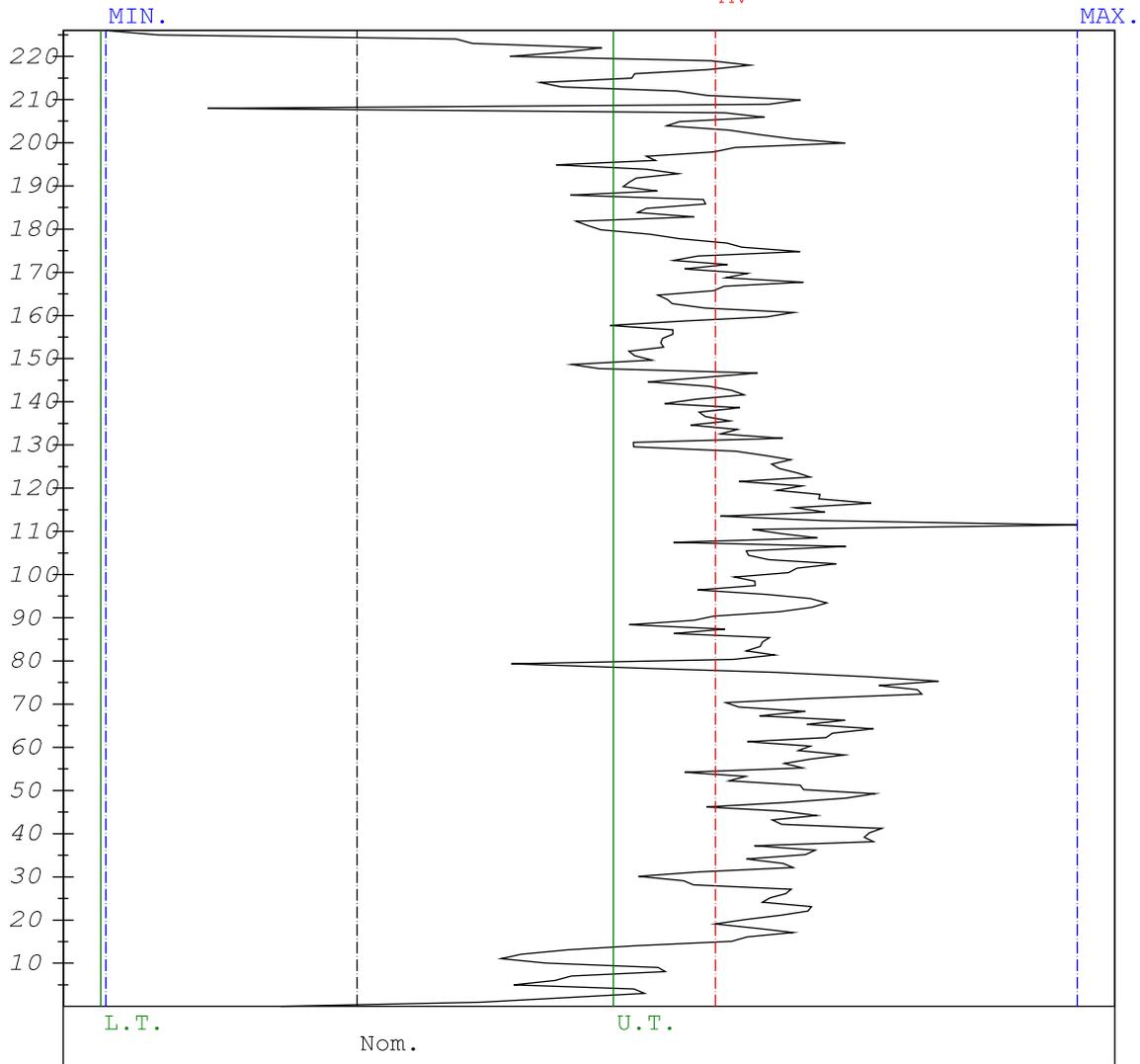
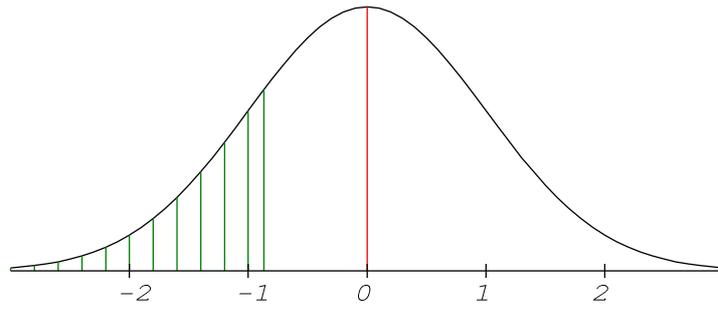


UPSTREAM

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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 13-OCT-2008
UNDULATOR # 21
DATASET # 0002
PROGRAM VERSION 2.7



Nominal : 4.5000	Averag : 5.1986	Cent.-Dev. : 0.6986
Up. Tol. : 0.5	Maximum : 5.9043	U.Tol.Ex. > : 80.7 %
Low.Tol. : -0.5	Minimum : 4.0102	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2289	In Tolerance: 19.3 %
Outlier : 0	Distribution : NOR	Dimension : mrad

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Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

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PROGRAM VERSION 2.7