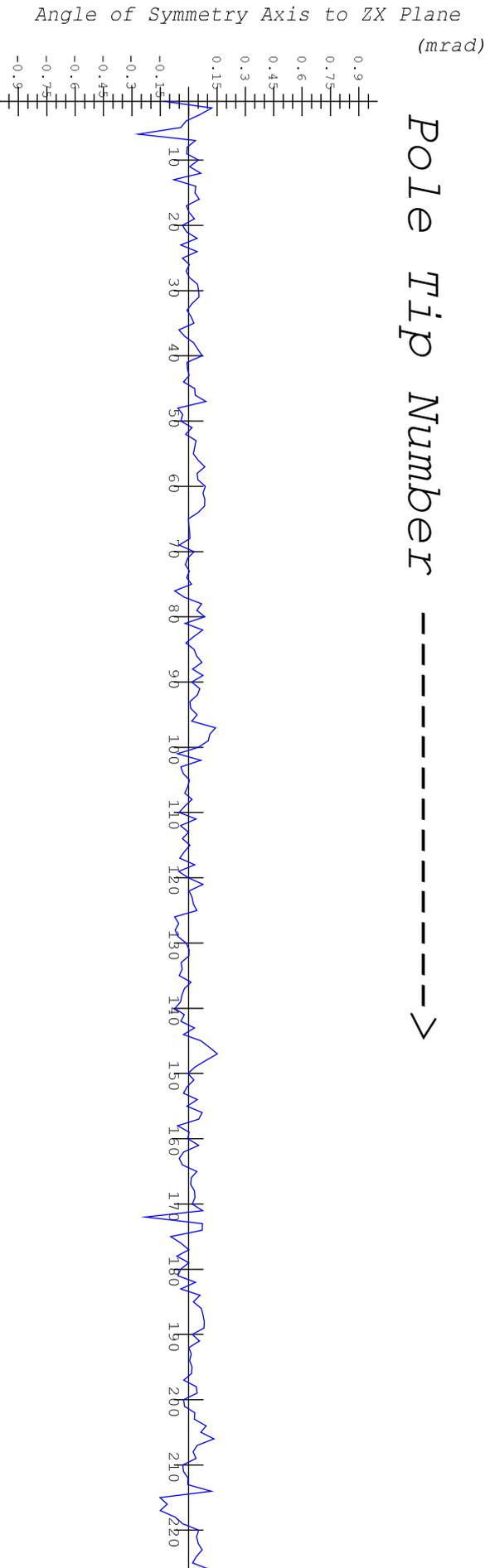


Pole Tip Number ----->



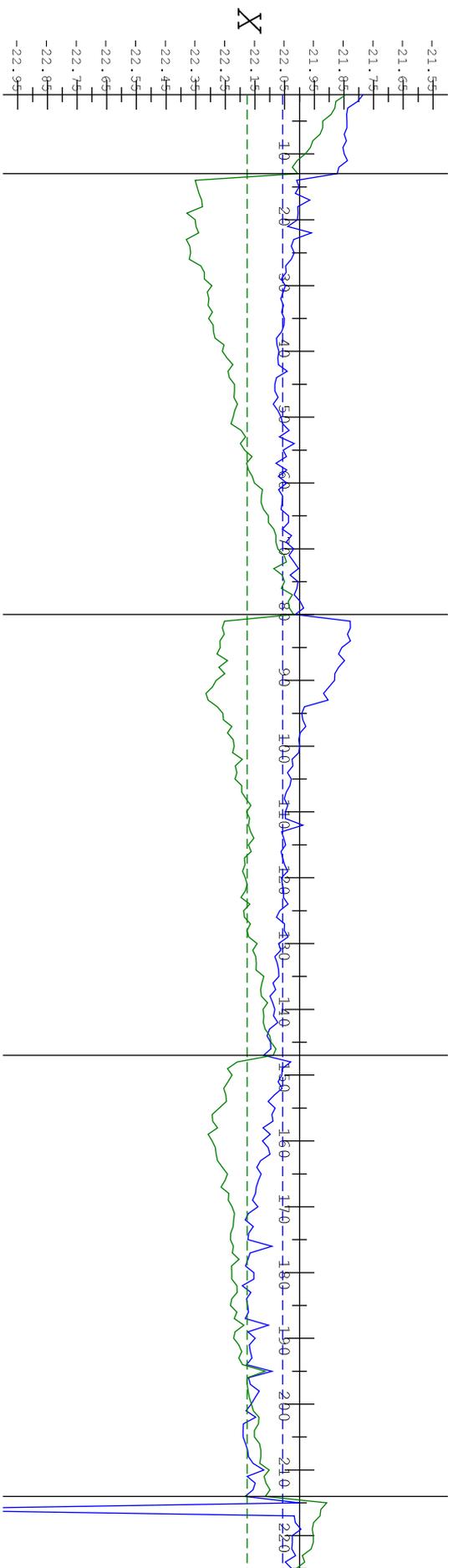
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 11-JUL-2007
 UNDUULATOR # 12
 DATASET # 0001
 PROGRAM VERSION 1.9

Pole Tip Number ----->

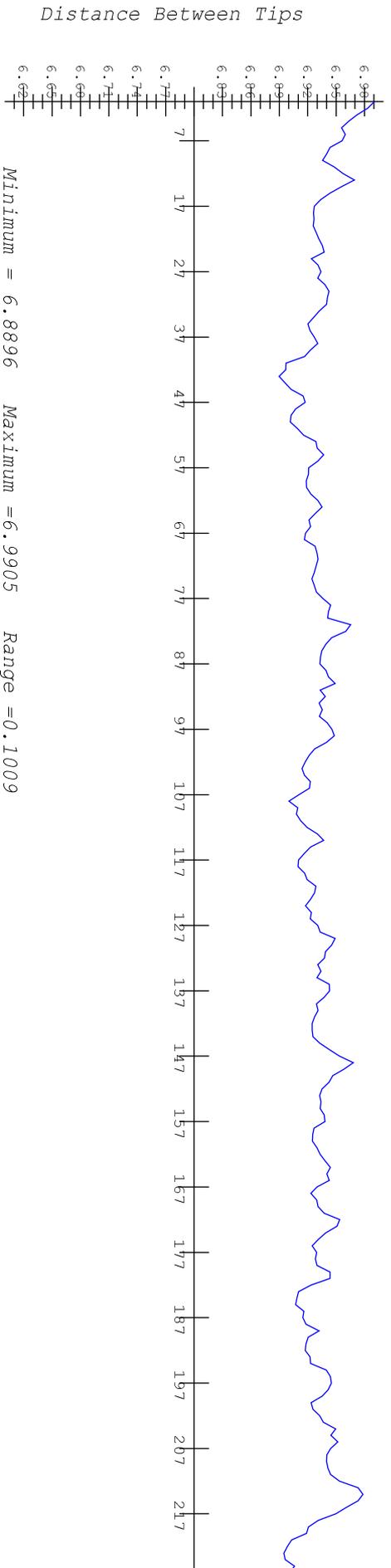


X values in mm
 Green Solid = Point on front face of Upper Pole Tip 10mm above Magnetic C/L
 Green Dash = Mean value of all Upper Pole Tips 10mm above Magnetic C/L Mean value Upper Pole Tips = -22.176
 Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L
 Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.057

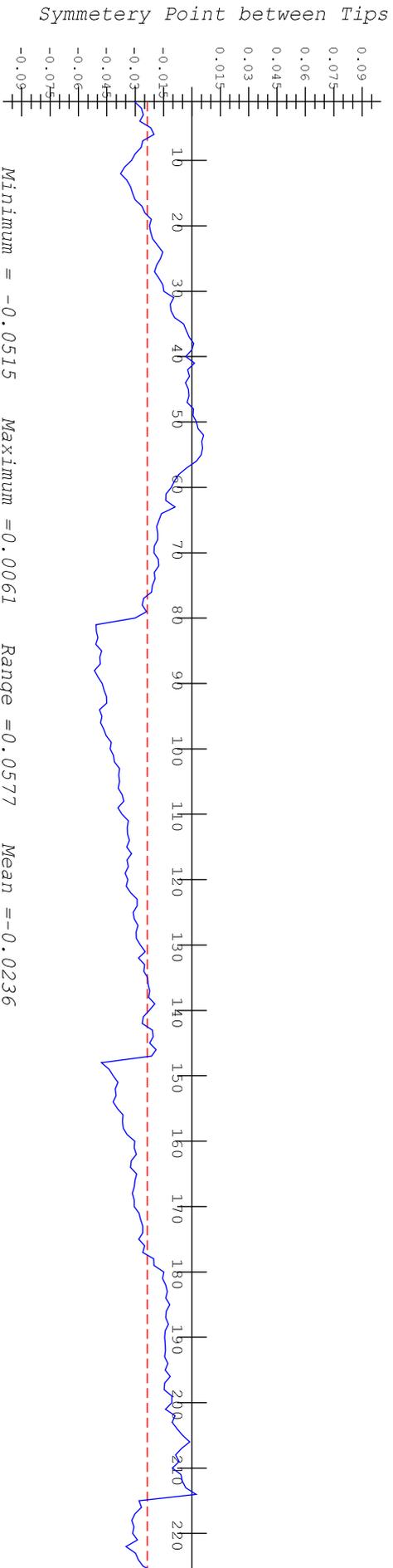
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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 11-JUL-2007
 UNDULATOR # 12
 DATASET # 0001
 PROGRAM VERSION 1.9



Pole Tip Number ----->



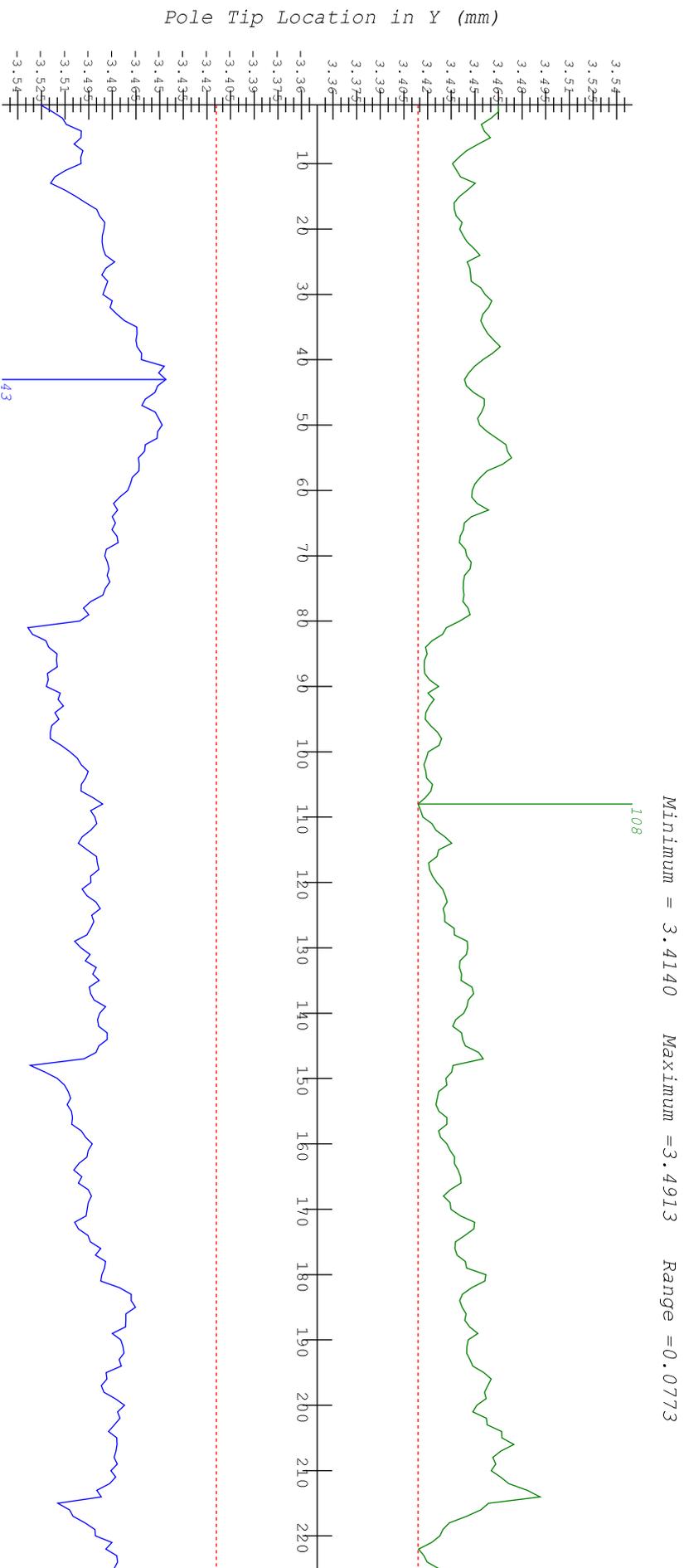
Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L
 Broken Red line is Mean Value of Symmetry Points
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a YZ plane at the Magnetic C\L

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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 11-JUL-2007
 UNDUULATOR # 12
 DATASET # 0001
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Maximum Chamber Gap = 6.8280



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-JUL-2007
UNDULATOR # 12
DATASET # 0001
PROGRAM VERSION 1.9



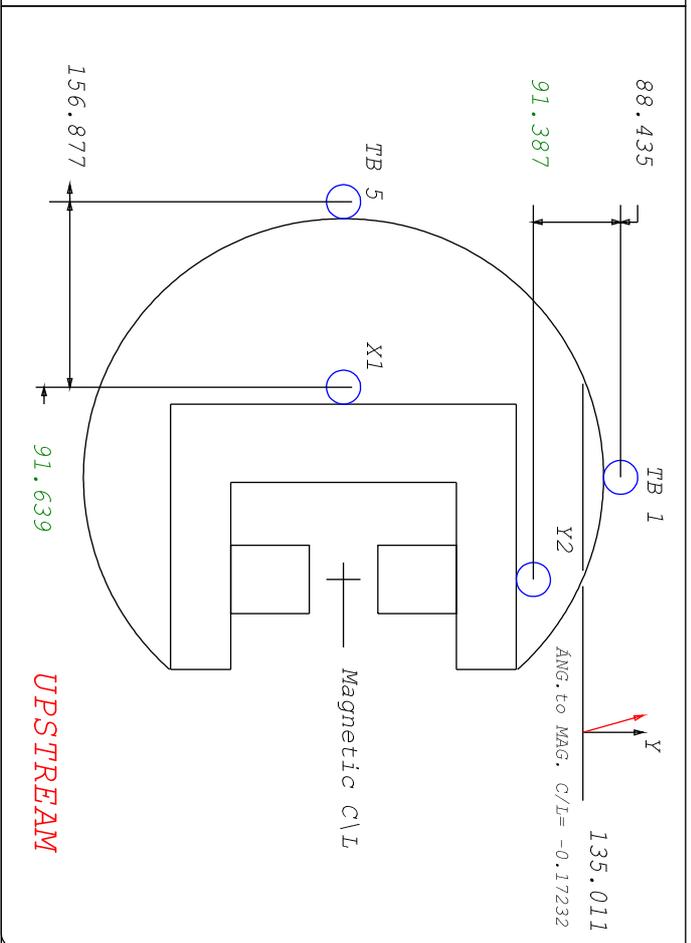
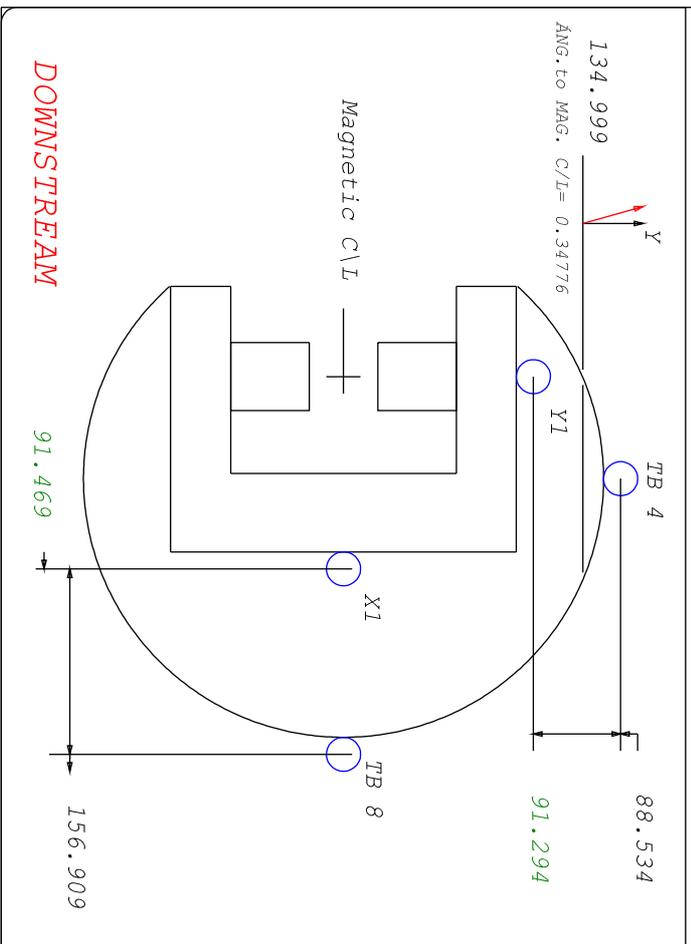
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1524	179.8217	-1558.579
2	0.3047	179.7426	-584.9396
3	0.1980	179.7680	591.0226
4	0.2080	179.8276	1561.9210
5	248.5162	0.1115	1558.567
6	248.5504	0.0654	-584.9228
7	248.5024	0.0345	591.2311
8	248.3785	0.1194	1561.9919

	C/L Offset	Length
Top Magnetic Structure	-0.003	3381.464
Bottom Magnetic Structure	0.003	3381.475
Strongback	0.064	3399.947

Dimensions in mm

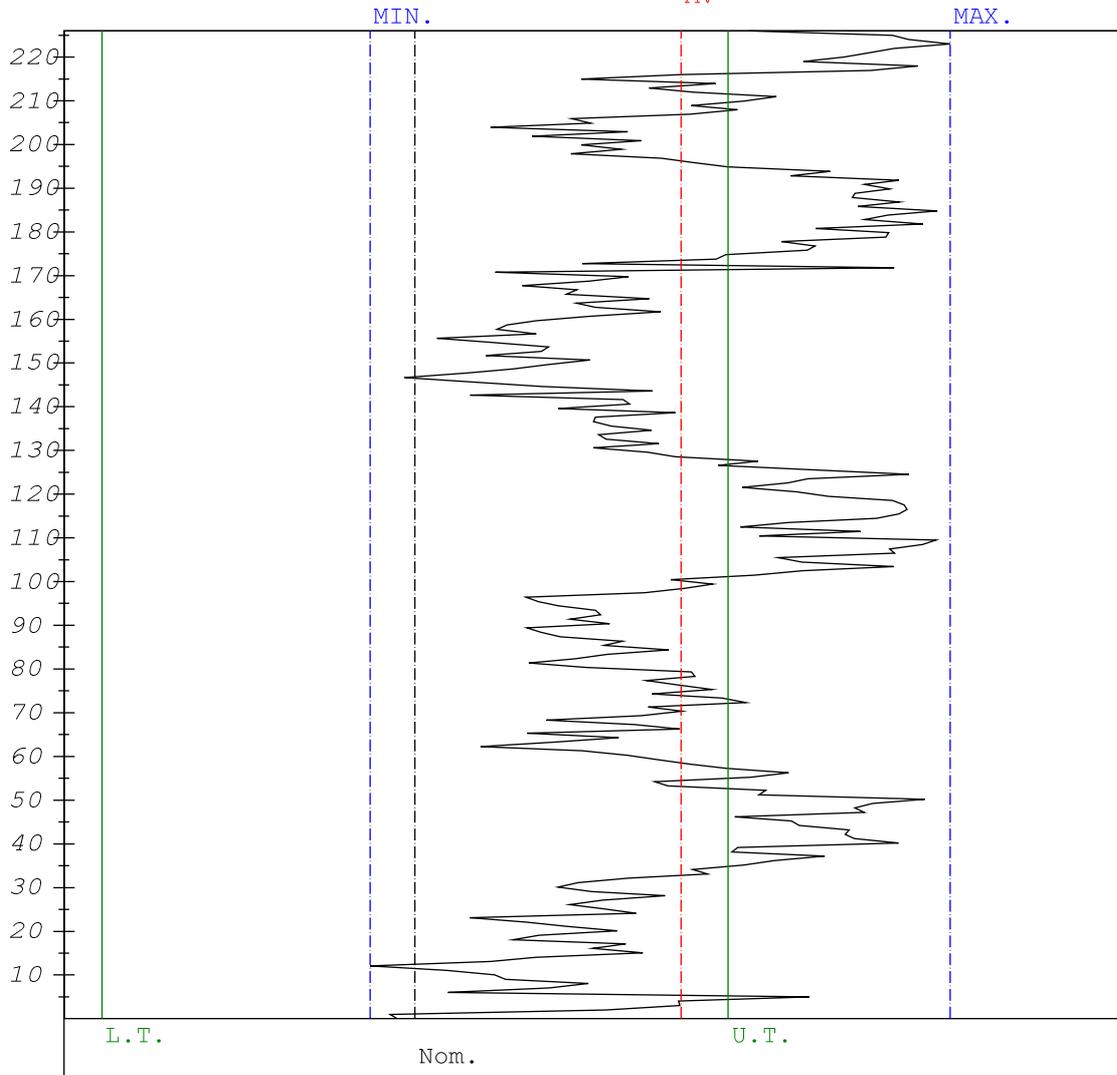
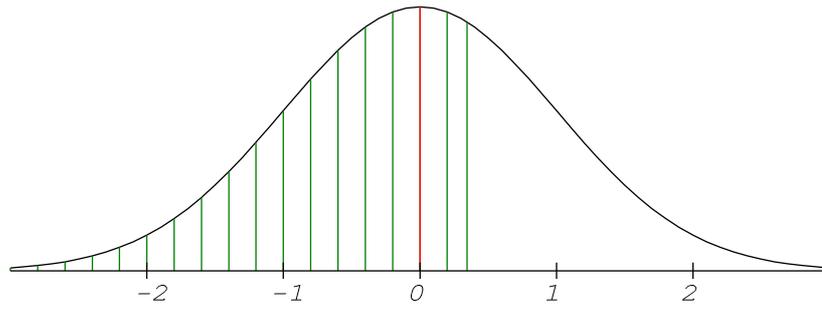
Angles in mrad



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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 11-JUL-2007
UNDULATOR # 12
DATASET # 0001
PROGRAM VERSION 1.9



Nominal : 4.5000	Averag : 4.9247	Cent.-Dev. : 0.4247
Up. Tol. : 0.5	Maximum : 5.3551	U.Tol.Ex. > : 36.5 %
Low.Tol. : -0.5	Minimum : 4.4286	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2180	In Tolerance: 63.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad

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Statistical Evaluation
Pole Tip Gap Angle
Post Magnetic Alignment

DATE: 11-JUL-2007
UNDULATOR # 12
DATASET # 0001
PROGRAM VERSION 1.9