

Pole Tip Number ----->

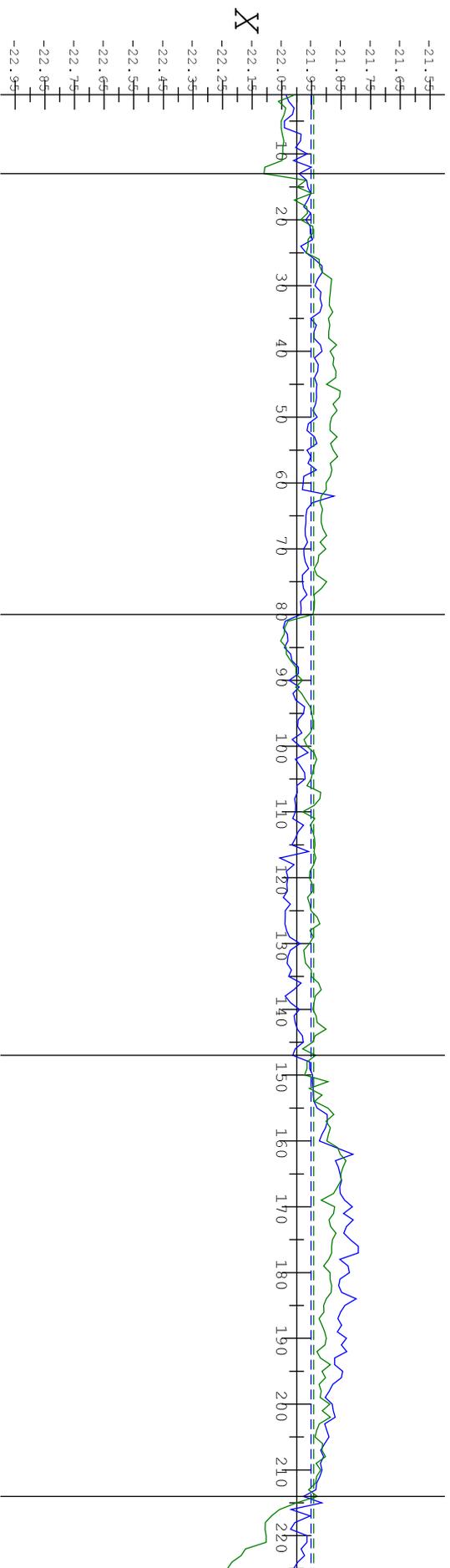
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 23-JAN-2008
 UNDULATOR # 13
 DATASET # 0006
 PROGRAM VERSION 2.5

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 = -21.943

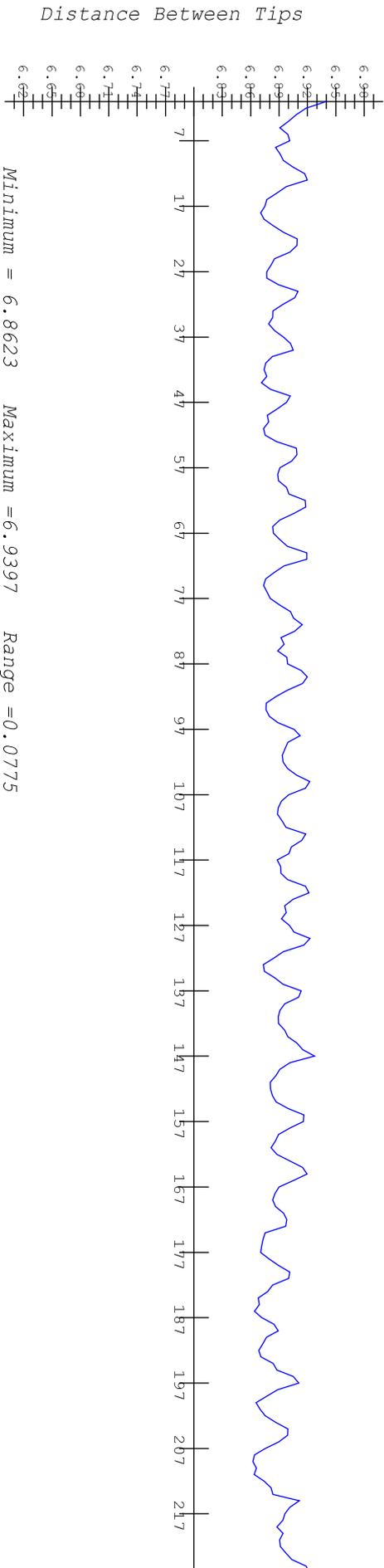
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -21.951

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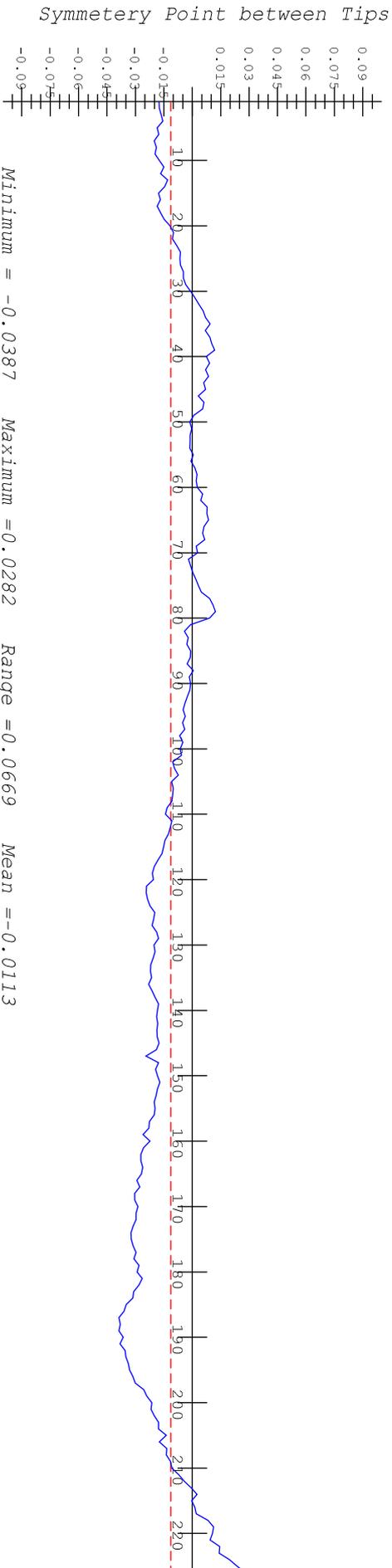
Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 23-JAN-2008
 UNDULATOR # 13
 DATASET # 0006
 PROGRAM VERSION 2.5



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

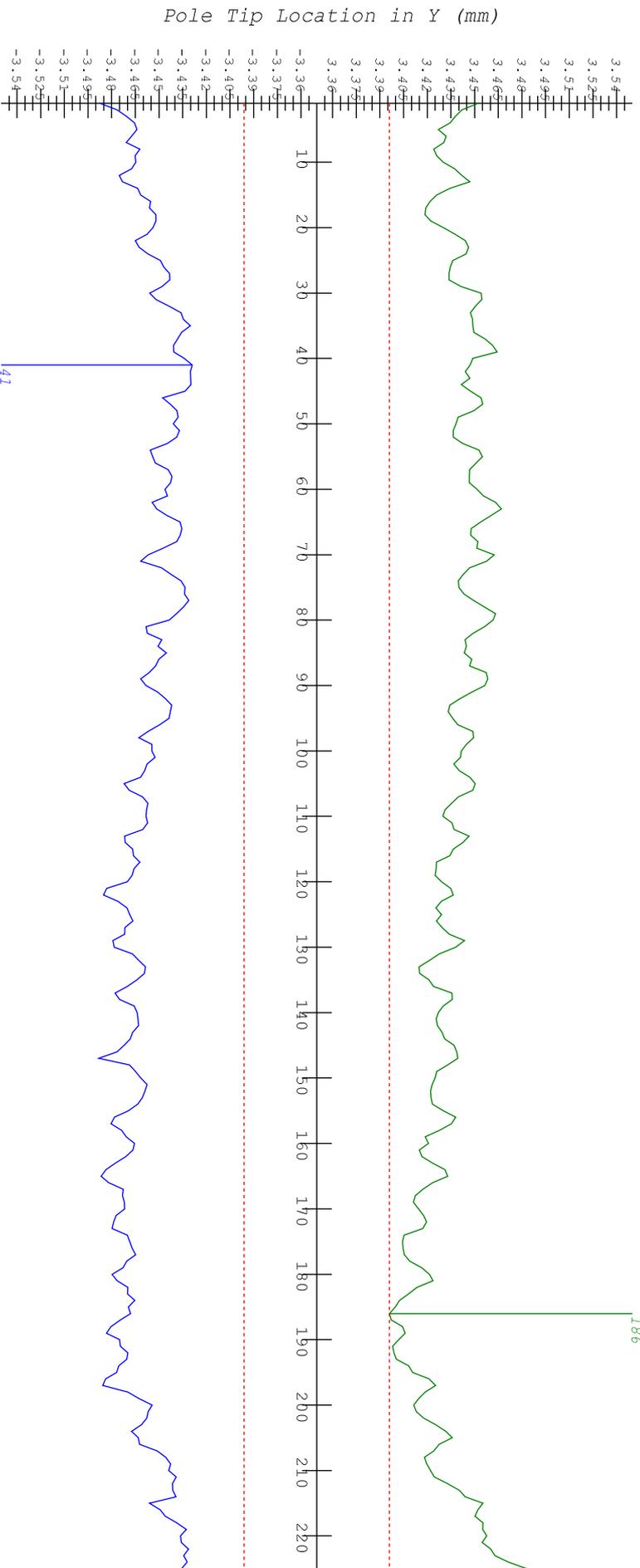
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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 23-JAN-2008
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Maximum Chamber Gap = 6.7920

Minimum = 3.3960 Maximum = 3.4890 Range = 0.0930



Minimum = -3.4882 Maximum = -3.4289 Range = 0.0593

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: 23-JAN-2008
UNDULATOR # 13
DATASET # 0006
PROGRAM VERSION 2.5



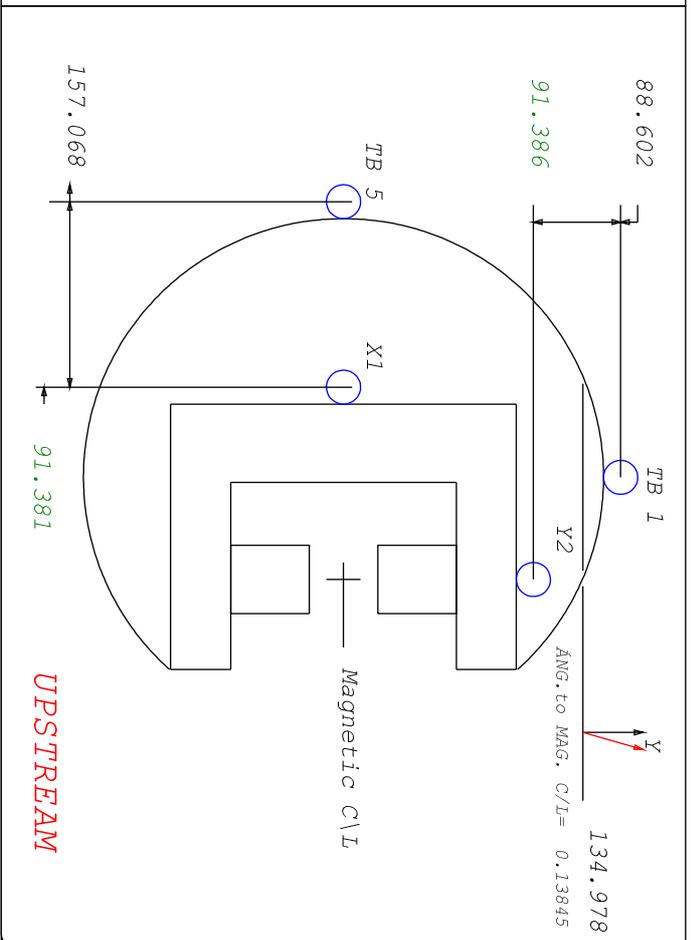
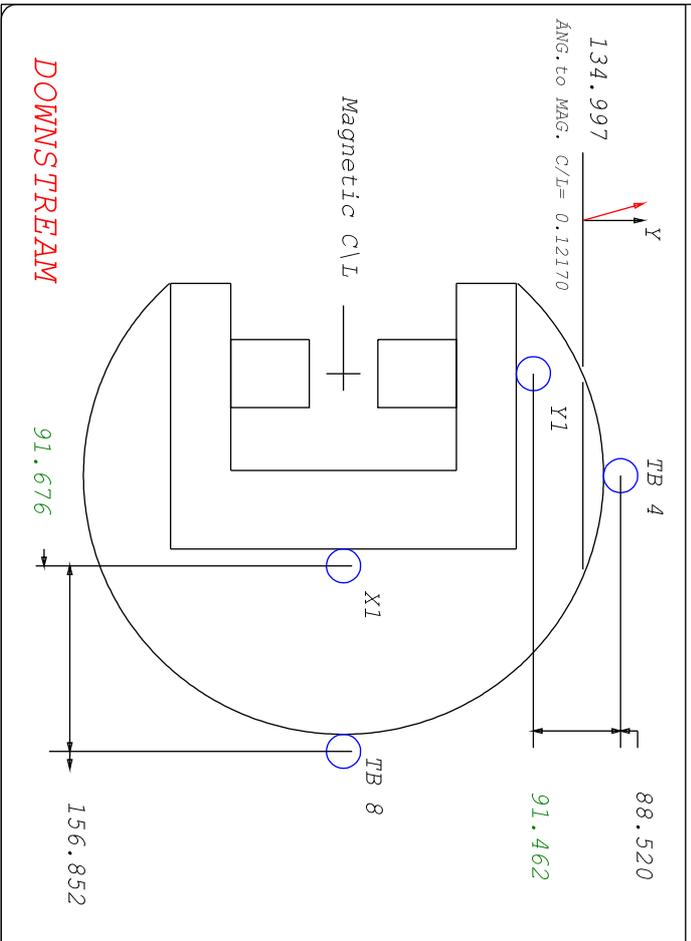
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.1252	179.9885	-1558.284
2	0.2822	180.0094	-584.4541
3	0.1942	179.8935	591.3082
4	0.1722	179.9824	1562.0802
5	248.4490	0.0714	-1558.330
6	248.4225	-0.0294	-584.6030
7	248.4613	0.0344	591.3227
8	248.5276	-0.0775	1562.0810

	C/L Offset	Length
Top Magnetic Structure	-0.096	3381.058
Bottom Magnetic Structure	0.096	3381.281
Strongback	0.268	3399.777

Dimensions in mm

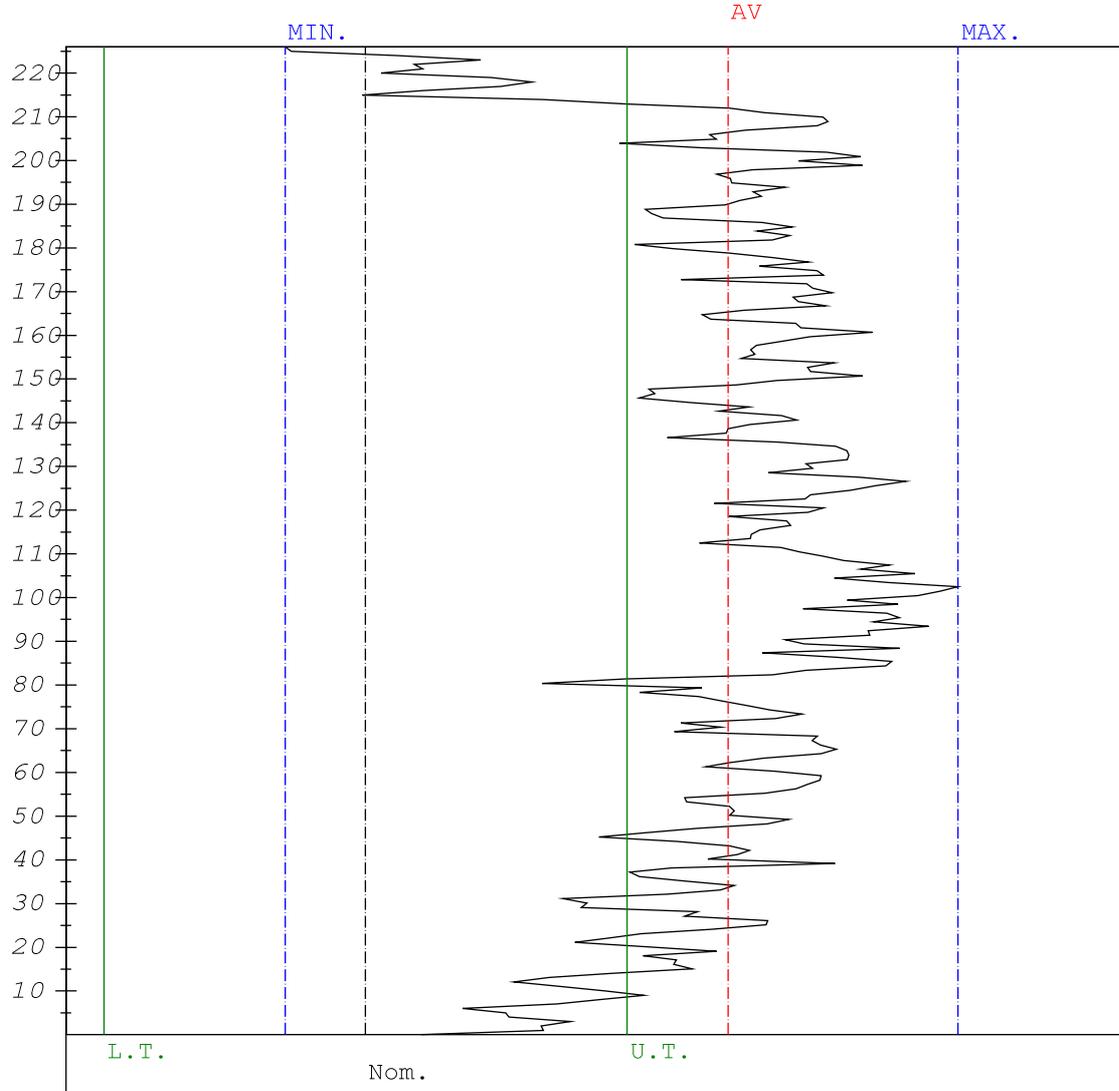
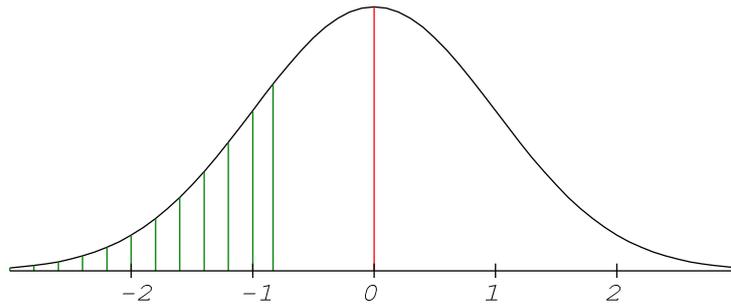
Angles in mrad



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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 23-JAN-2008
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DATASET # 0006
PROGRAM VERSION 2.5



Nominal : 4.5000	Averag : 5.193	Cent.-Dev. : 0.693
Up. Tol. : 0.5	Maximum : 5.6327	U.Tol.Ex. > : 79.7 %
Low.Tol. : -0.5	Minimum : 4.3463	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2321	In Tolerance: 20.3 %
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:23-JAN-2008 UNDULATOR # 13 DATASET # 0006 PROGRAM VERSION 2.5</p>
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