

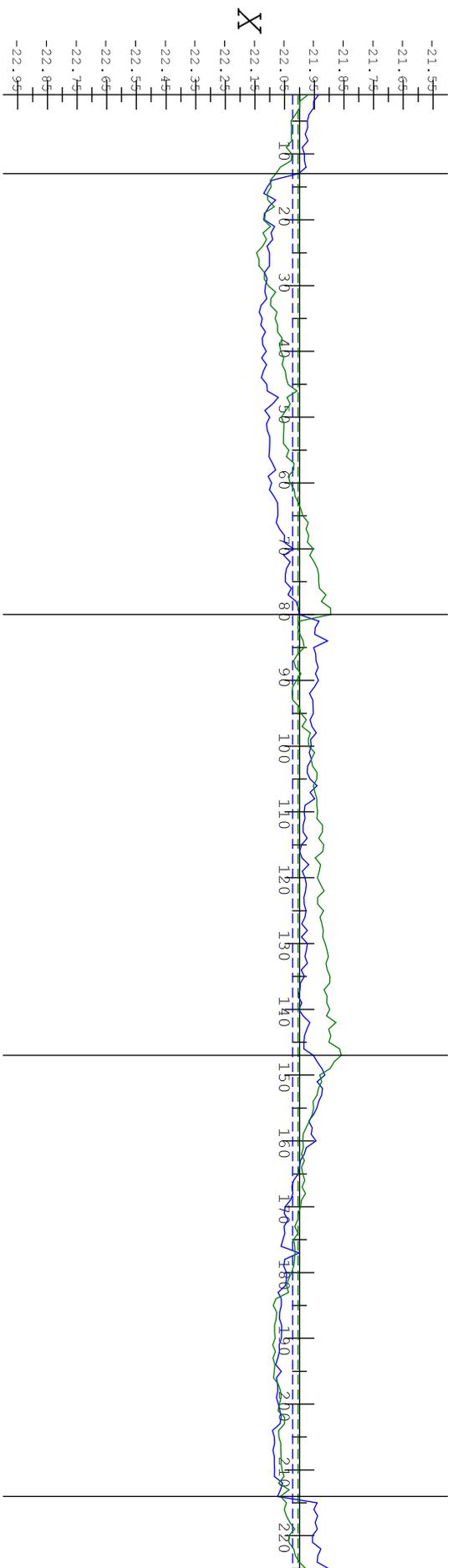
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

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 LEITZ CMM

Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 17-APR-2008
 UNDUULATOR # 29
 DATASET # 0001
 PROGRAM VERSION 2.7

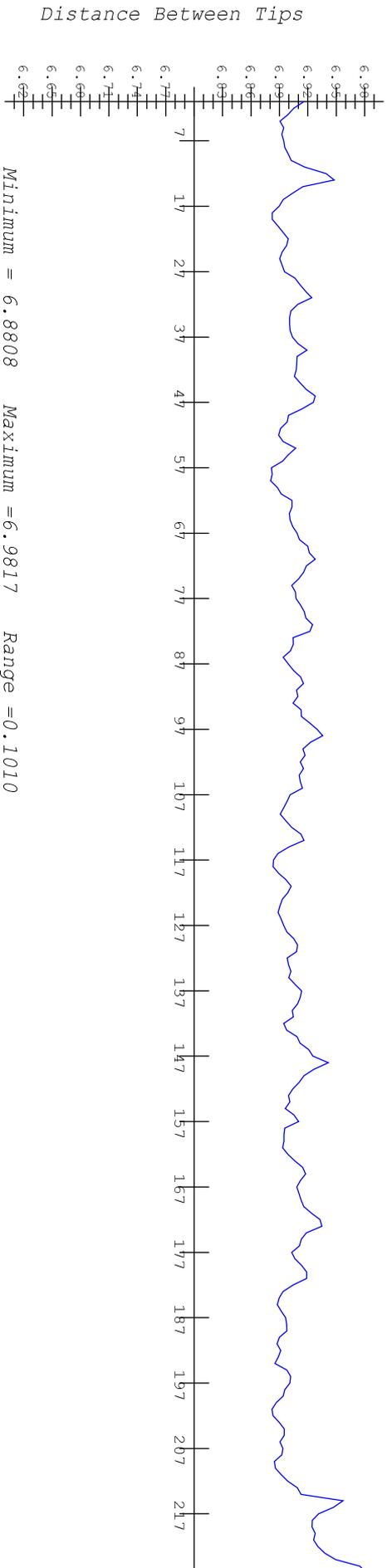
Pole Tip Number ----->



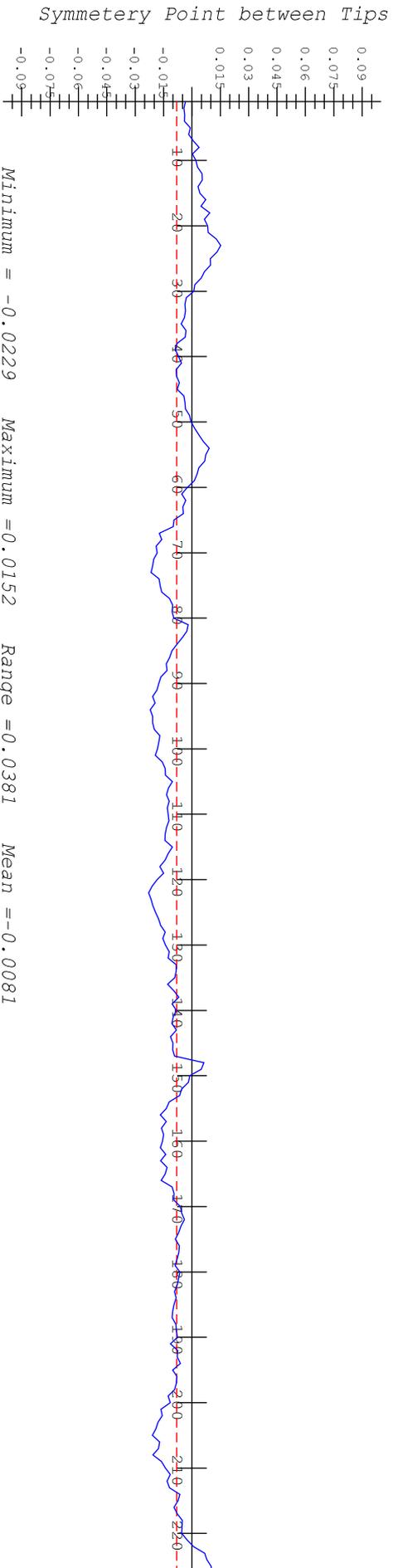
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Undulator Pole Tip Location
 Post Magnetic Alignment

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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

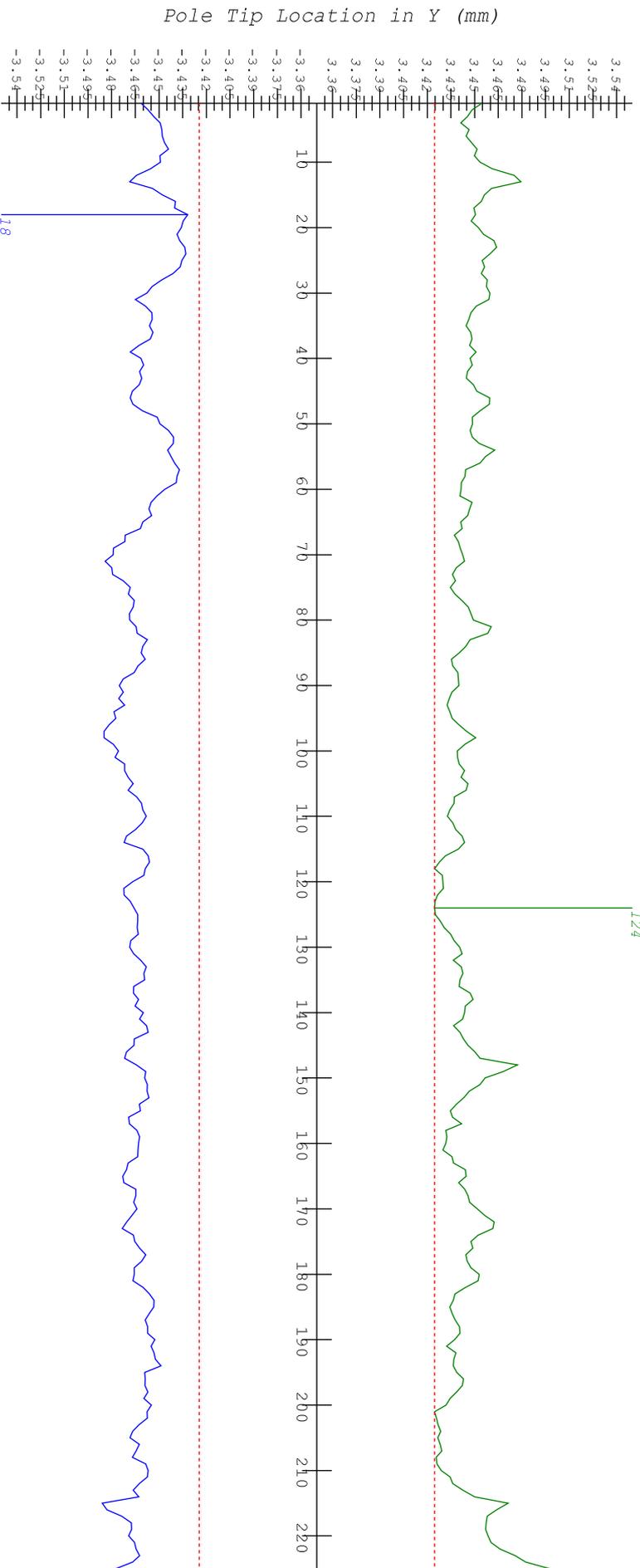
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Undulator Pole Tip Location
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Maximum Chamber Gap = 6.8492

Minimum = 3.4246 Maximum = 3.5014 Range = 0.0768



Minimum = -3.4859 Maximum = -3.4319 Range = 0.0541

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

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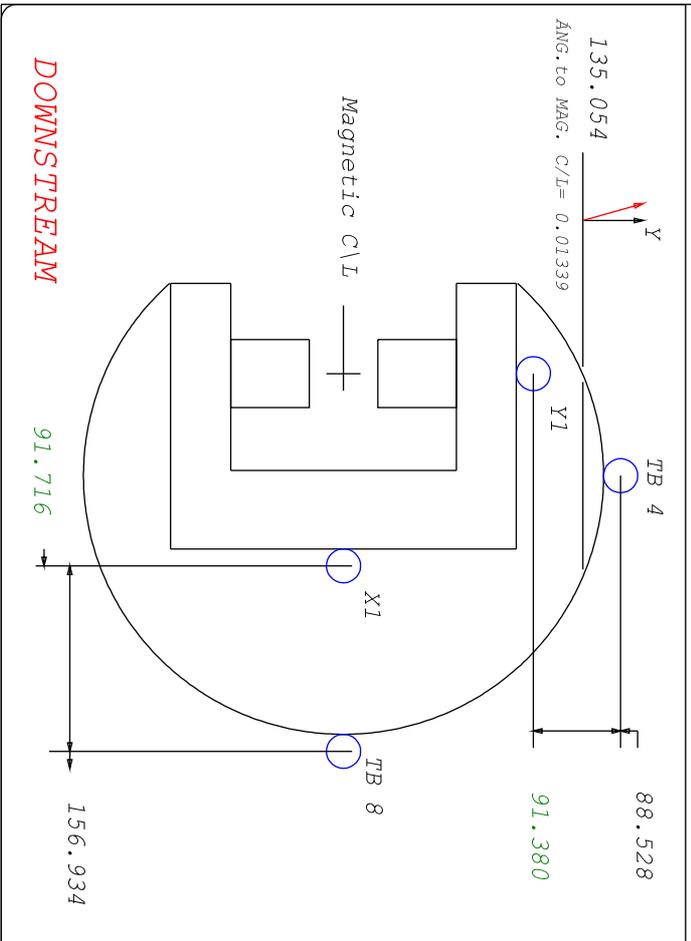
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.2580	179.8053	-1558.267
2	0.4365	179.7615	-584.6934
3	0.5522	179.8138	591.3131
4	0.5140	179.9085	1562.1741
5	248.6626	0.1376	-1558.319
6	248.6344	0.0548	-584.6747
7	248.6823	0.1577	591.3248
8	248.6502	0.1038	1562.2237

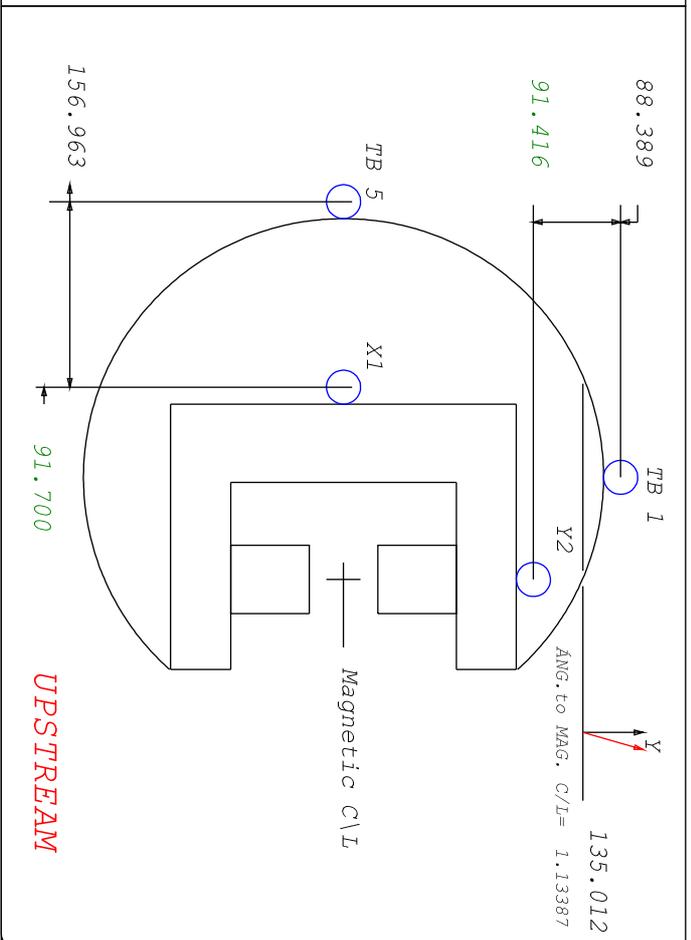
	C/L Offset	Length
Top Magnetic Structure	0.000	3380.957
Bottom Magnetic Structure	0.000	3381.166
Strongback	0.313	3399.983

Dimensions in mm

Angles in mrad



DOWNSTREAM

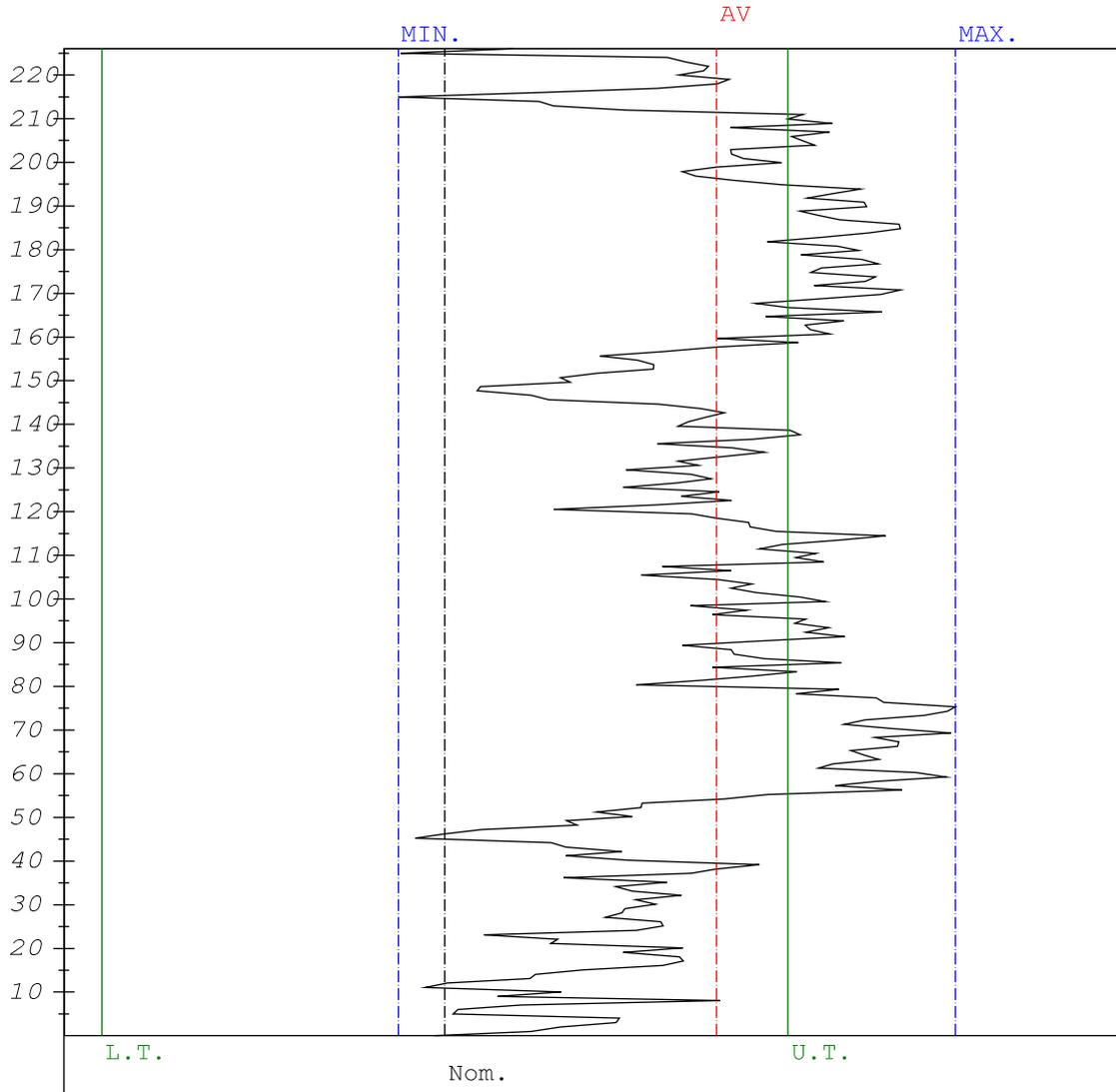
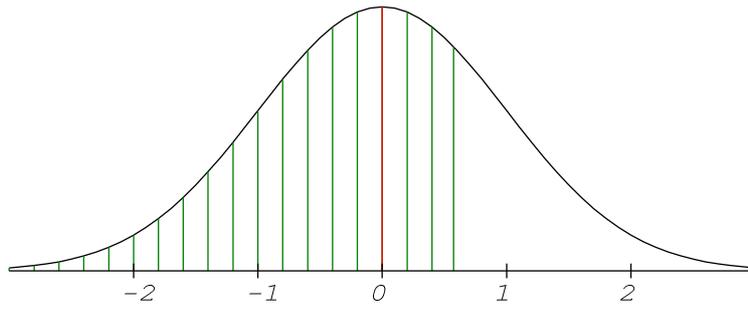


UPSTREAM

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Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 17-APR-2008
UNDULATOR # 29
DATASET # 0001
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Nominal : 4.5000	Averag : 4.8962	Cent.-Dev. : 0.3962
Up. Tol. : 0.5	Maximum : 5.2442	U.Tol.Ex. > : 28.4 %
Low.Tol. : -0.5	Minimum : 4.4323	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1811	In Tolerance: 71.6 %
Outlier : 0	Distribution : NOR	Dimension : mrad

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Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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