

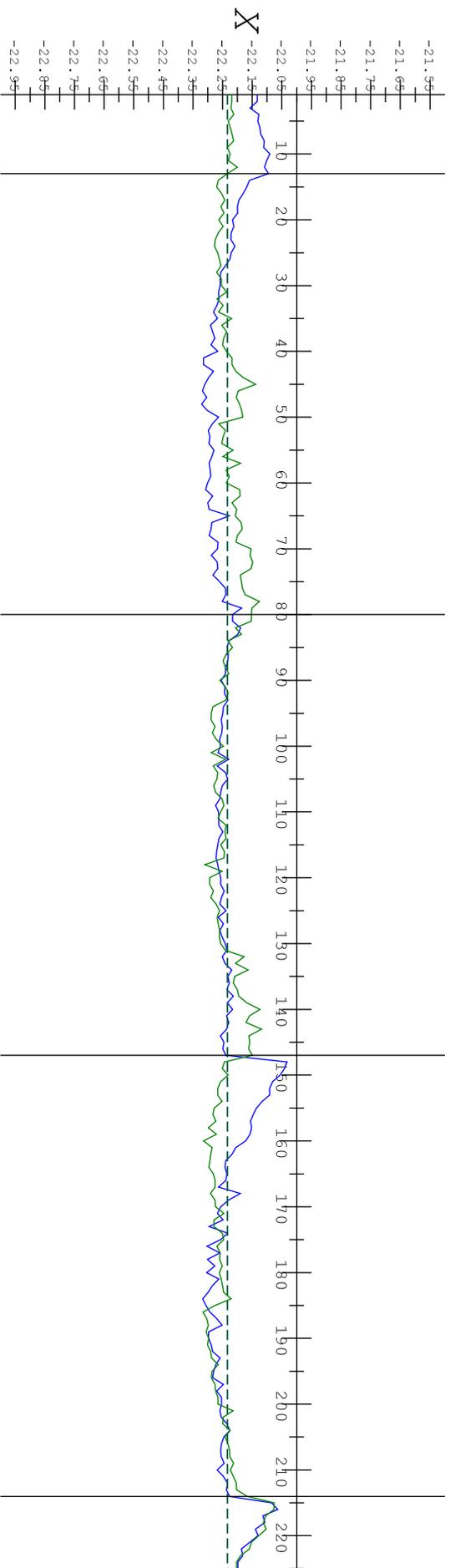
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 21-MAR-2011
 UNDULATOR # 35
 DATASET # 0004
 PROGRAM VERSION 2.9

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 = -22.233

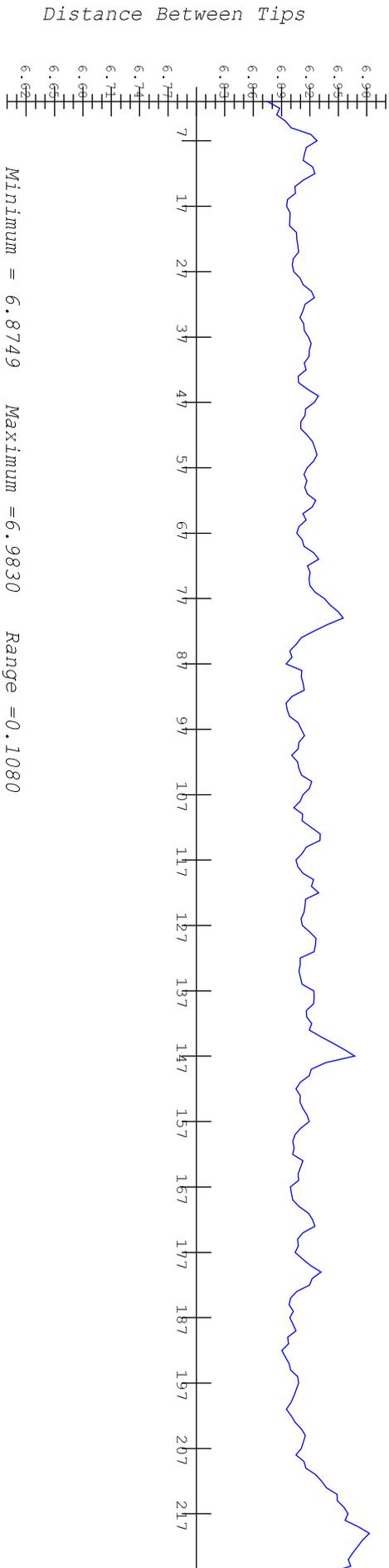
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.234

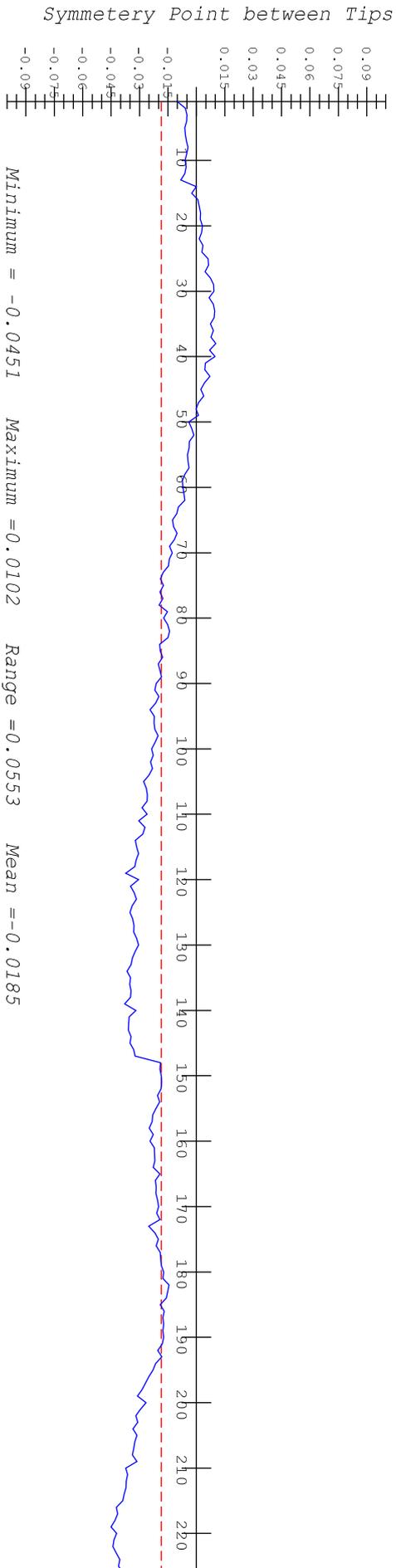


Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 21-MAR-2011
UNDULATOR # 35
DATASET # 0004
PROGRAM VERSION 2.9



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

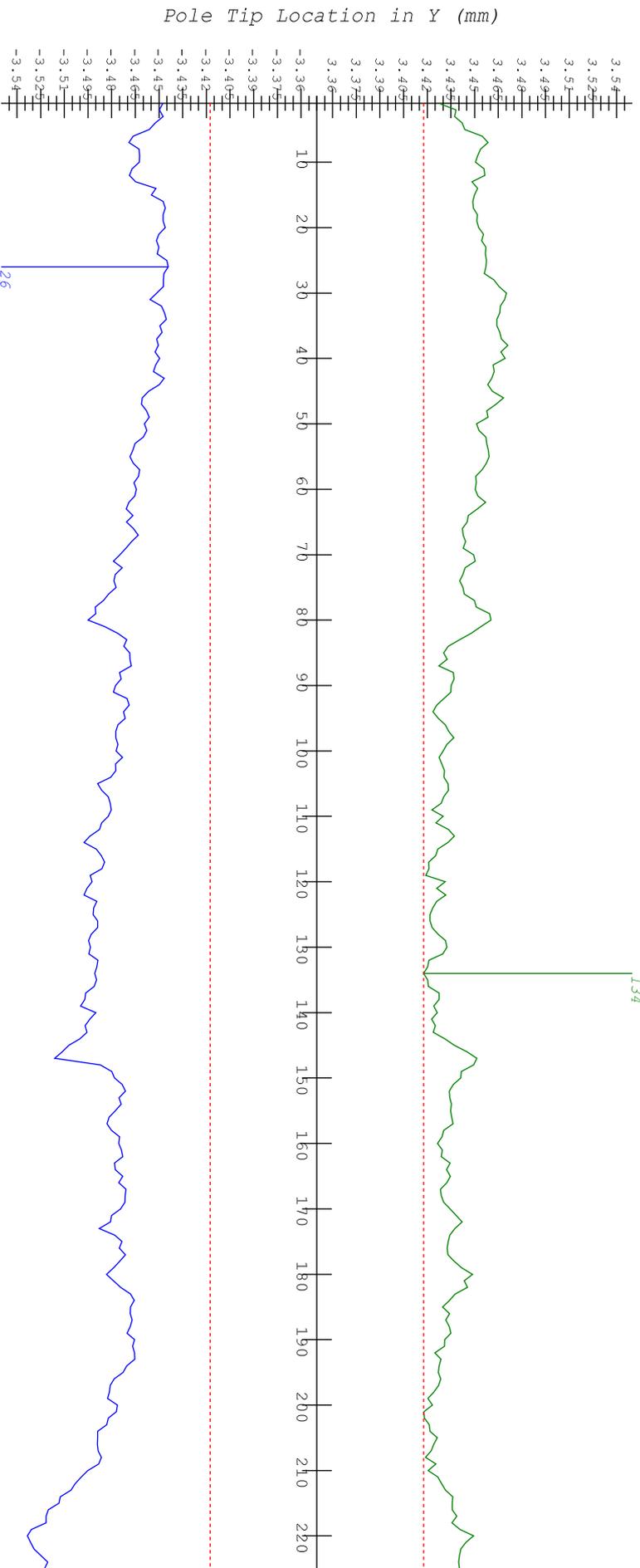


Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 21-MAR-2011
 UNDUULATOR # 35
 DATASET # 0004
 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.8353

Minimum = 3.4176 Maximum = 3.4710 Range = 0.0533



Minimum = -3.5335 Maximum = -3.4442 Range = 0.0893

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)



Undulator Pole Tip Location
Post Magnetic Alignment

DATE: 21-MAR-2011
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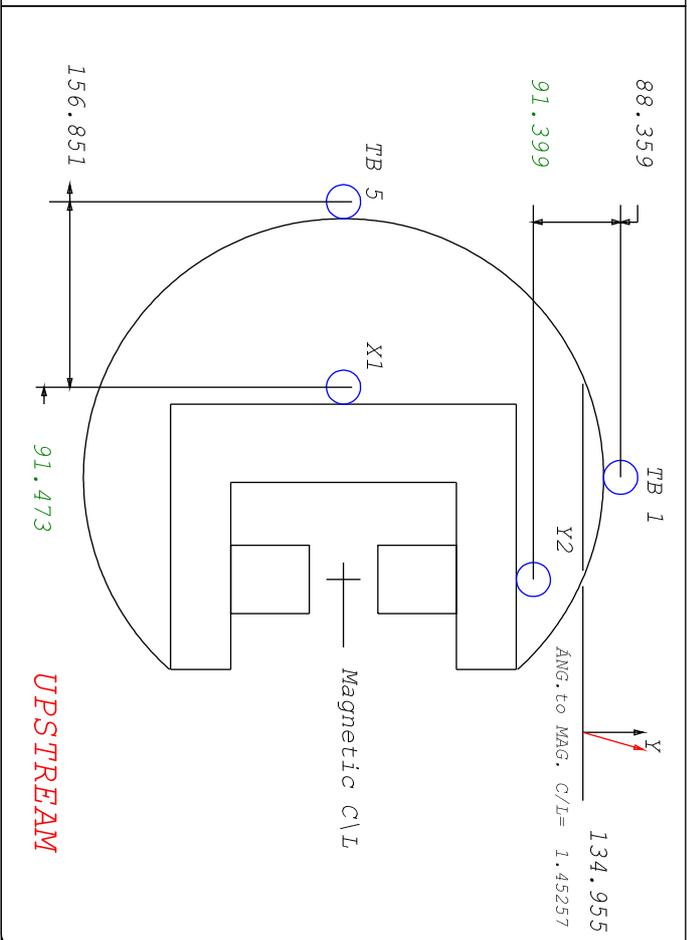
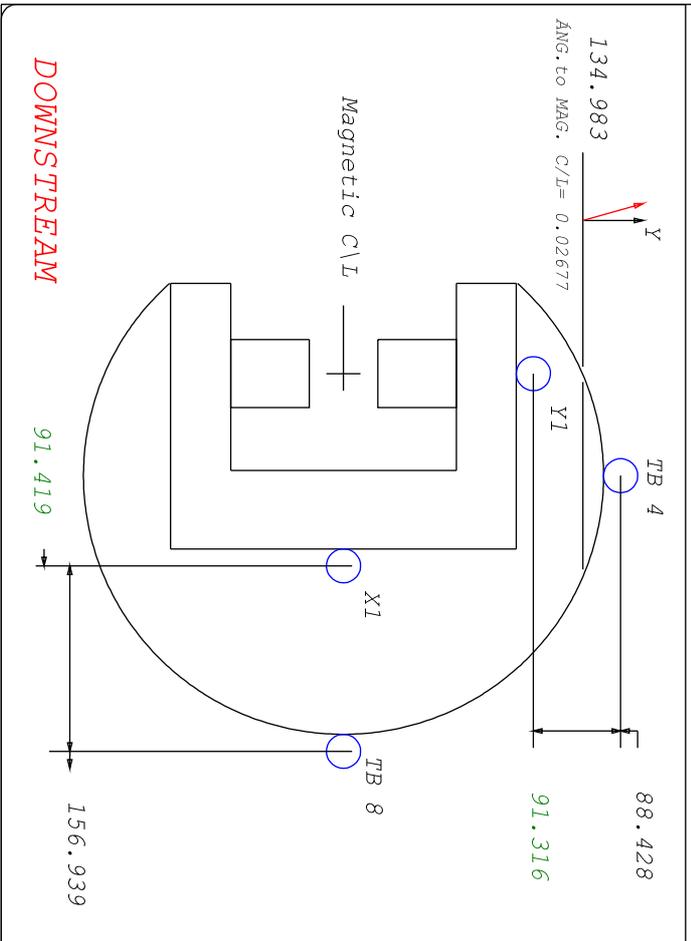
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	0.0458	179.7579	-1558.336
2	0.1007	179.6866	-584.7771
3	0.2152	179.6821	591.3443
4	0.1566	179.7443	1562.1524
5	248.3244	0.1170	-1558.321
6	248.4423	0.1096	-584.6908
7	248.4553	0.0578	591.3157
8	248.3577	-0.0646	1562.1777

	C/L Offset	Length
Top Magnetic Structure	0.093	3381.332
Bottom Magnetic Structure	-0.093	3381.289
Strongback	0.282	3400.034

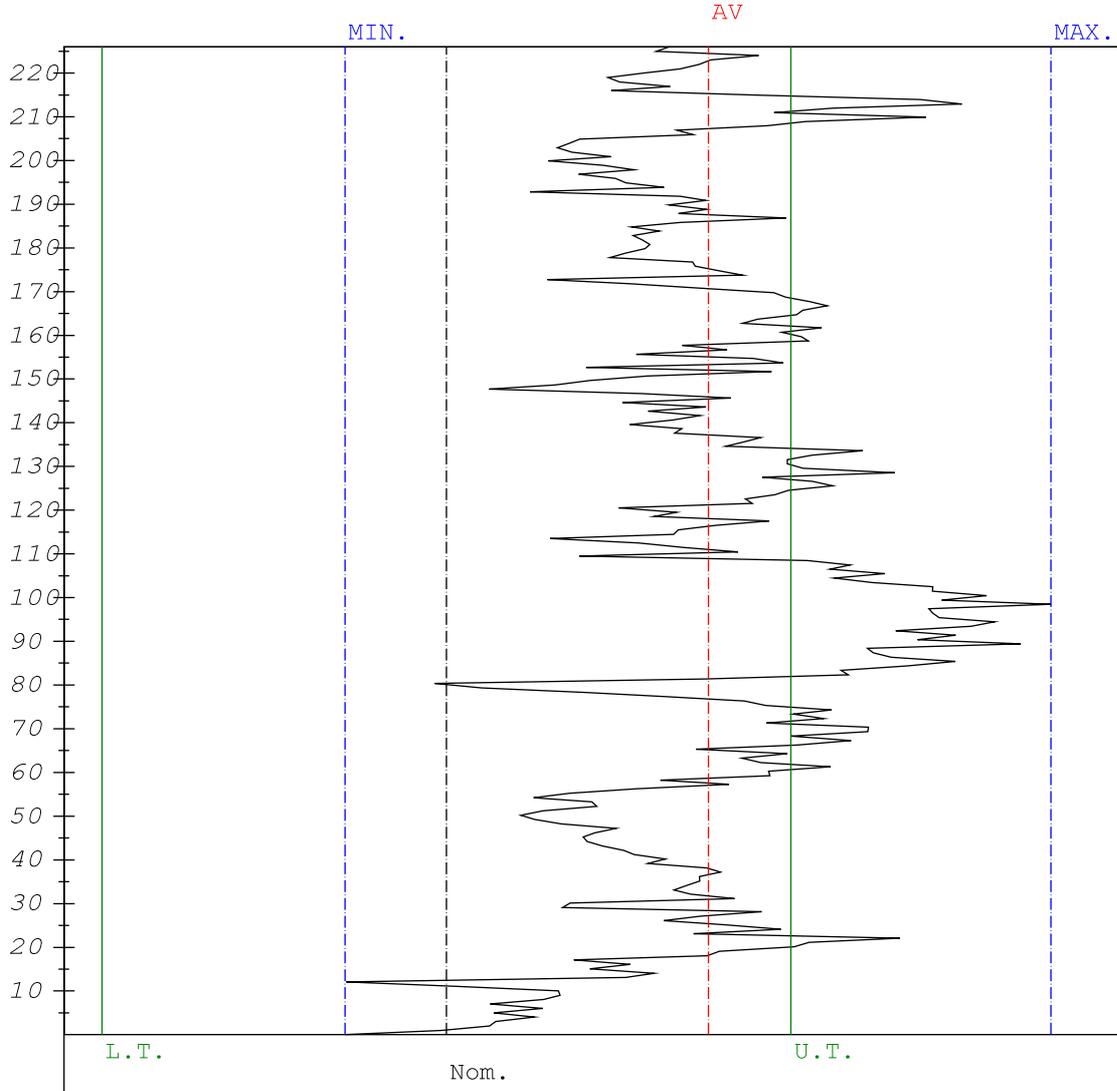
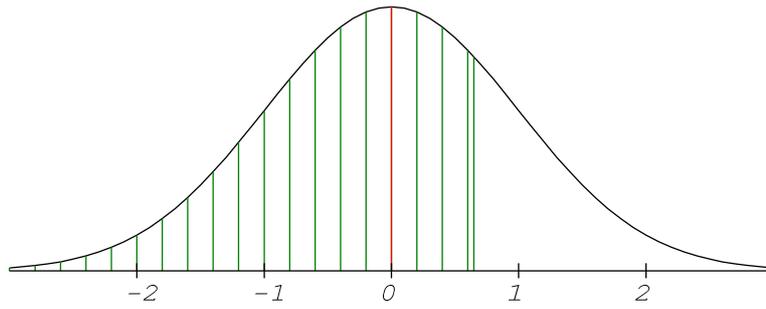
Dimensions in mm

Angles in mrad



Undulator Dimensional Fiducialization Post Magnetic Alignment

DATE: 21-MAR-2011
 UNDUATOR # 35
 DATASET # 0004
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Nominal : 4.5000	Averag : 4.8806	Cent.-Dev. : 0.3806
Up. Tol. : 0.5	Maximum : 5.3776	U.Tol.Ex. > : 25.9 %
Low.Tol. : -0.5	Minimum : 4.3530	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1848	In Tolerance: 74.1 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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 UNDULATOR # 35
 DATASET # 0004
 PROGRAM VERSION 2.9