

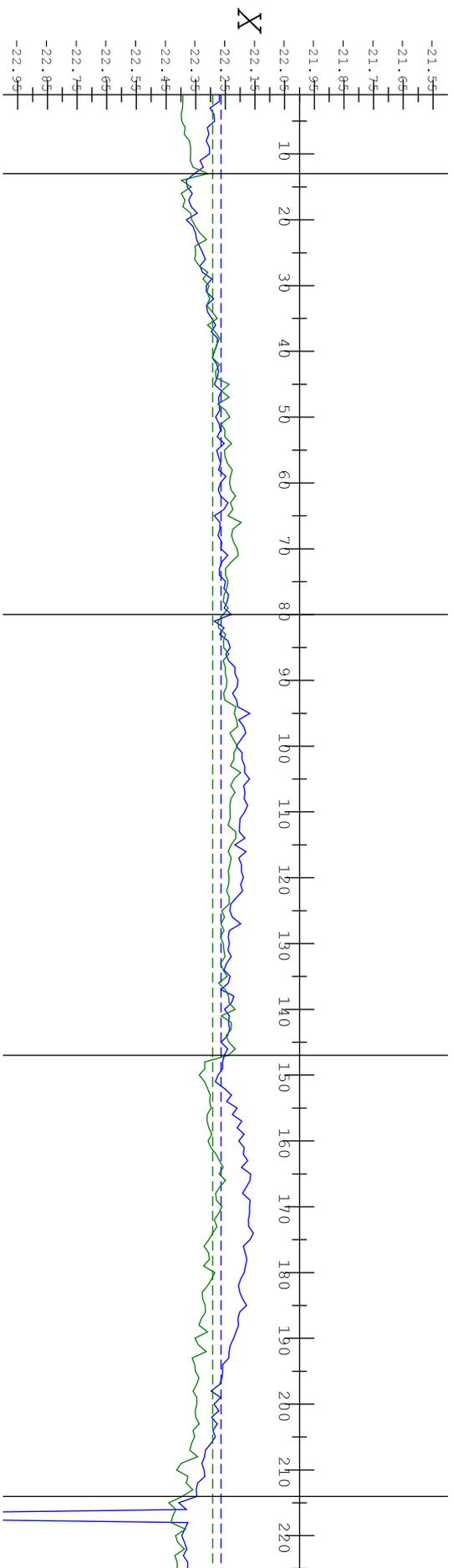
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 02-FEB-2011
 UNDULATOR # 36
 DATASET # 0002
 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 = -22.2933

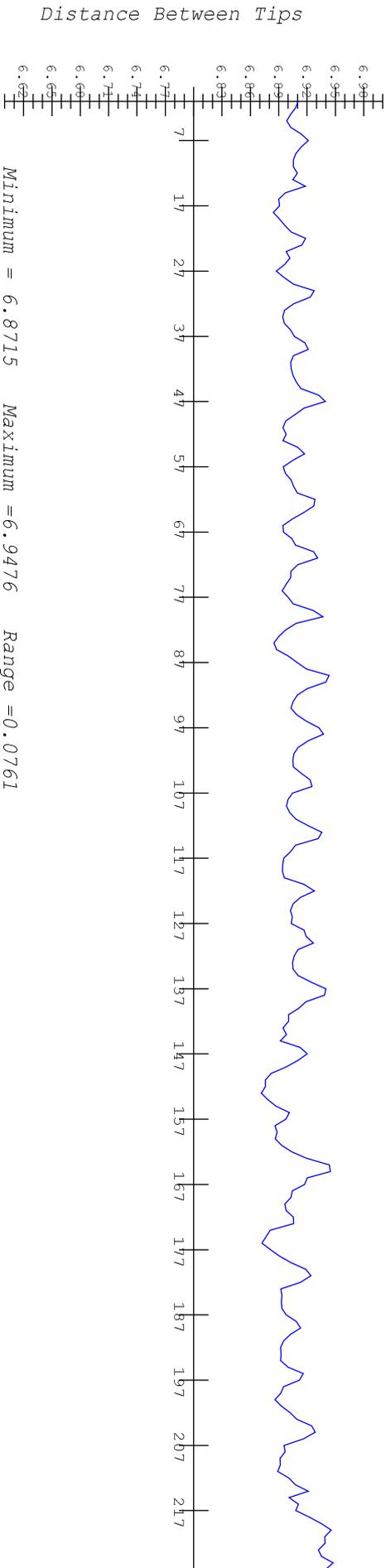
Blue Solid = Point on front face of Lower Pole Tip 10mm below Magnetic C/L

Blue Dash = Mean value of all Lower Pole Tips 10mm below Magnetic C/L Mean value Lower Pole Tips = -22.265



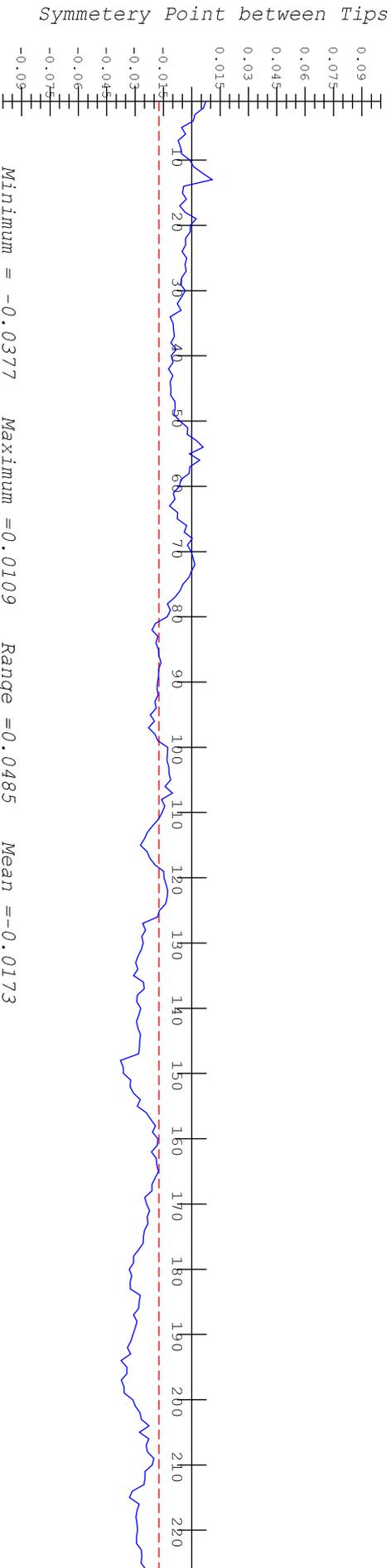
Undulator Pole Tip Location Post Magnetic Alignment

DATE: 02-FEB-2011
UNDULATOR # 36
DATASET # 0002
PROGRAM VERSION 2.9



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

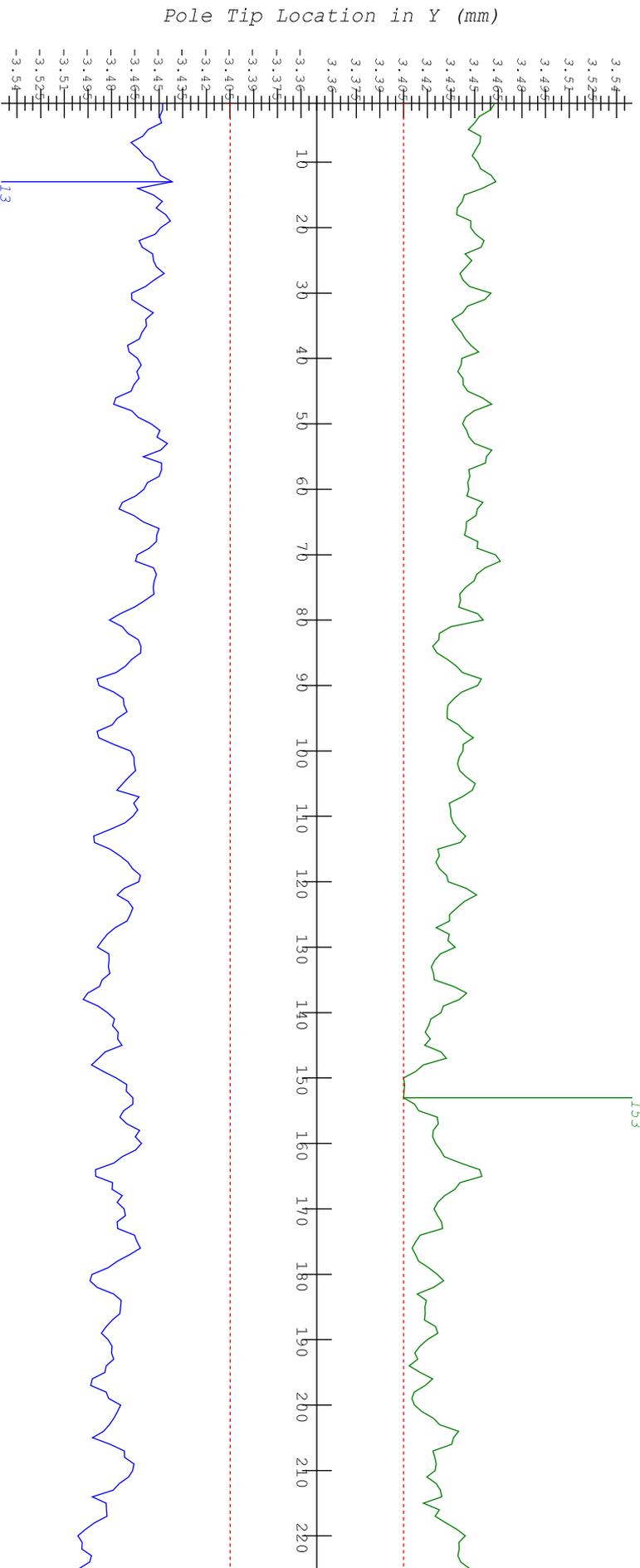


Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8098

Minimum = 3.4049 Maximum = 3.4663 Range = 0.0614



Minimum = -3.5014 Maximum = -3.4417 Range = 0.0598

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

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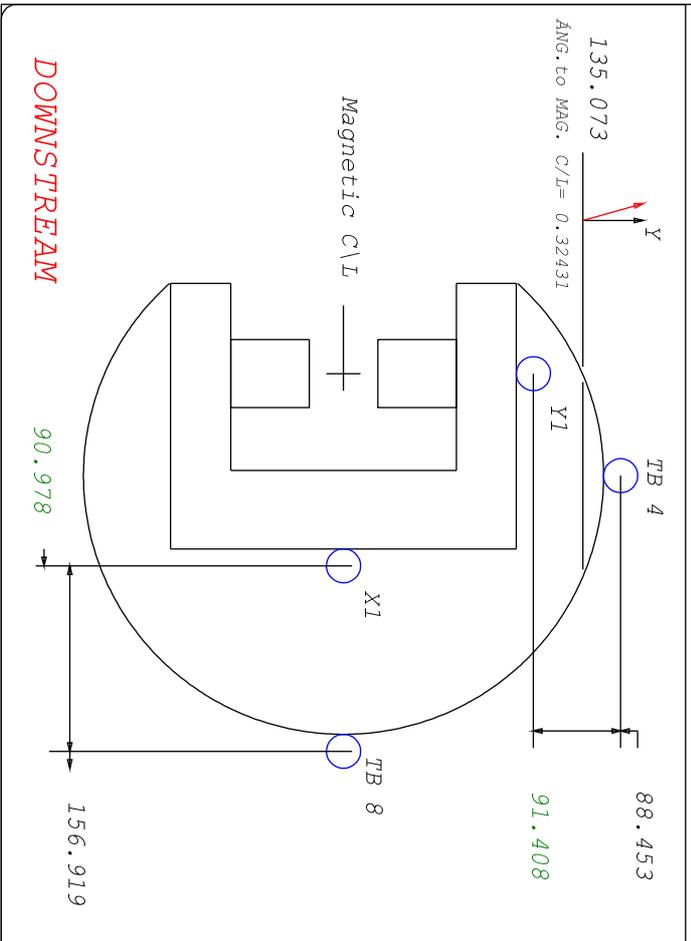
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.4151	179.8589	-1558.241
2	-0.2491	179.7937	-584.5975
3	-0.1849	179.7034	591.3585
4	-0.2625	179.8609	1562.2245
5	247.8442	0.0057	-1558.300
6	248.0785	0.0884	-584.6662
7	248.0824	0.0062	591.4758
8	247.8972	0.0686	1562.2857

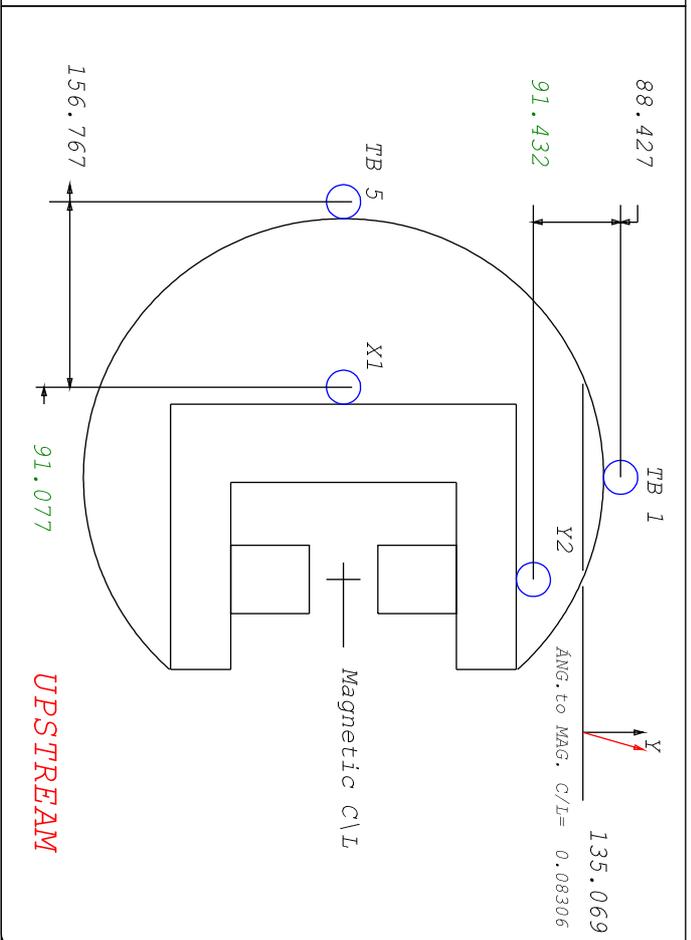
	C/L Offset	Length
Top Magnetic Structure	-0.013	3380.952
Bottom Magnetic Structure	0.013	3381.027
Strongback	0.393	3399.916

Dimensions in mm

Angles in mrad



DOWNSTREAM

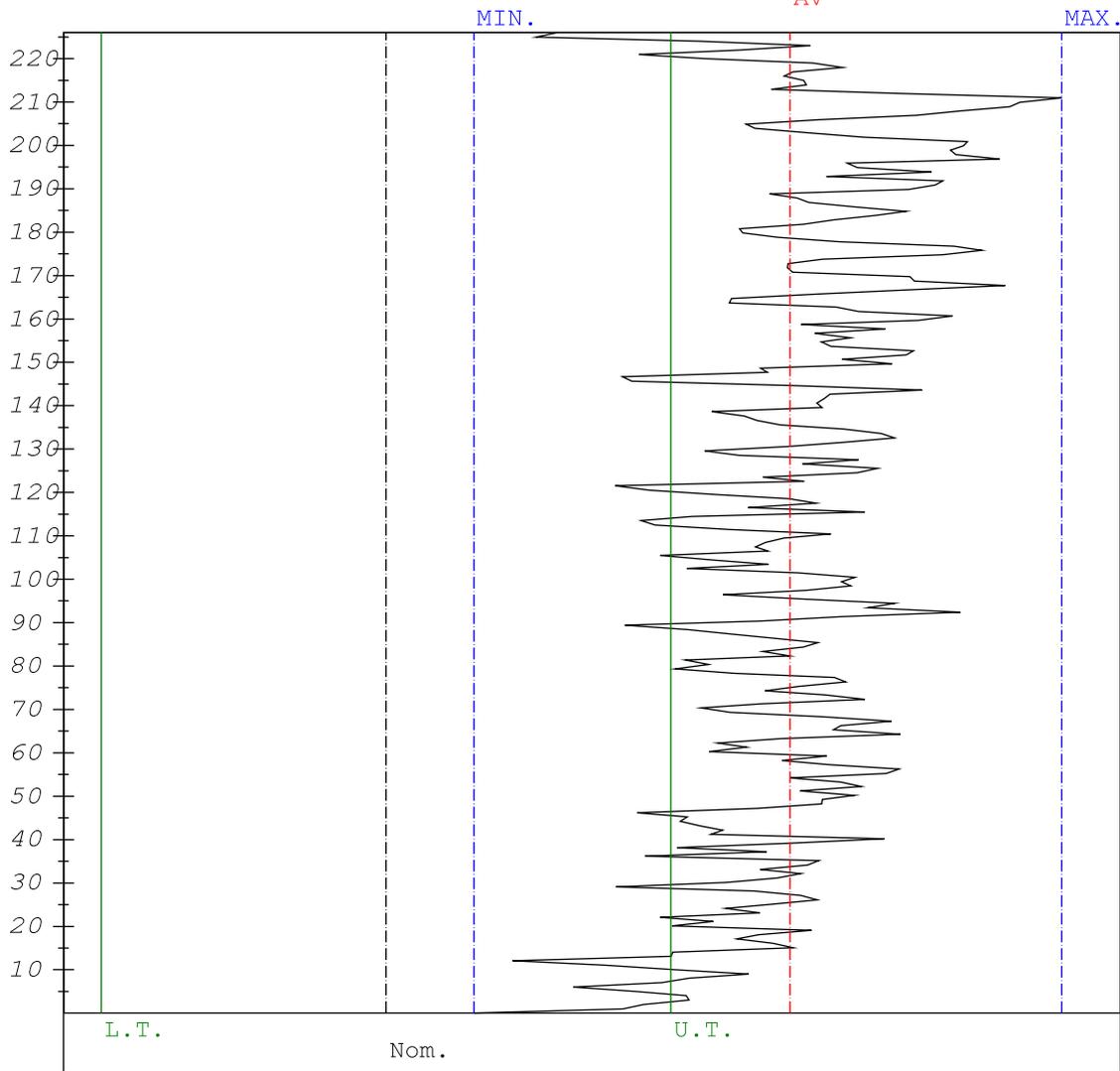
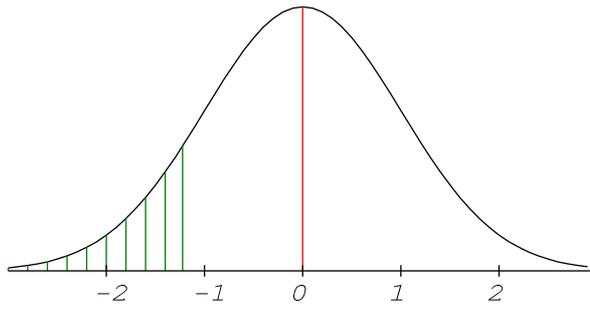


UPSTREAM



Undulator Dimensional Fiducialization Post Magnetic Alignment

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Nominal : 4.5000	Averag : 5.2096	Cent.-Dev. : 0.7096
Up. Tol. : 0.5	Maximum : 5.6862	U.Tol.Ex. > : 89.0 %
Low.Tol. : -0.5	Minimum : 4.6544	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.1712	In Tolerance: 11.0 %
Outlier : 0	Distribution : NOR	Dimension : mrad



Statistical Evaluation
 Pole Tip Gap Angle
 Post Magnetic Alignment

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