

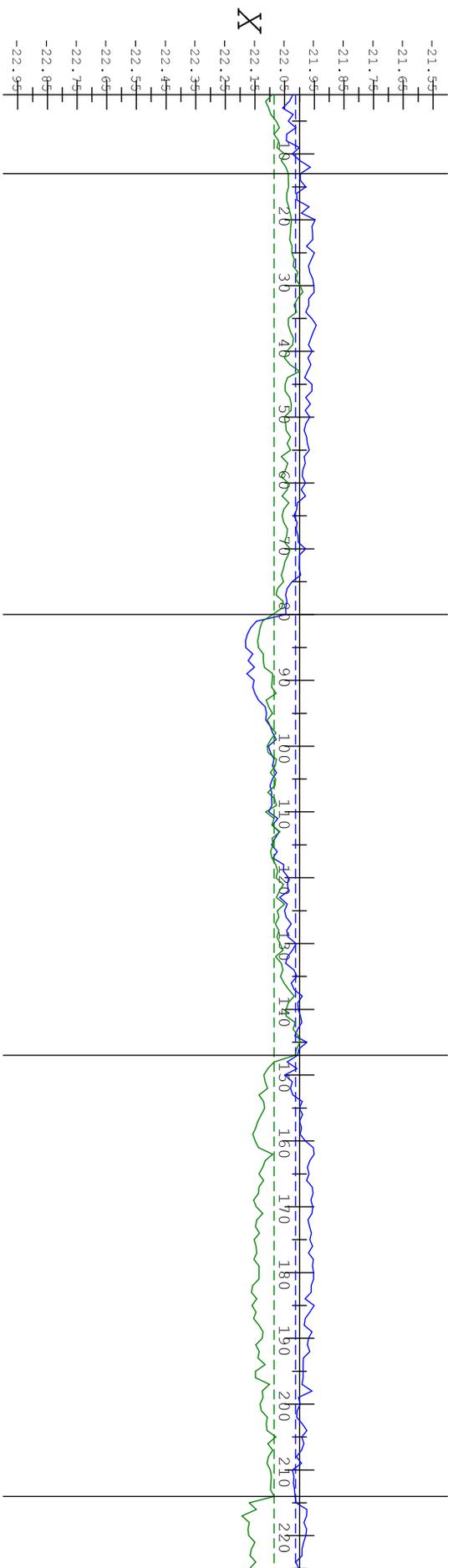
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips
 Included Angle is the angle between the Upper and Lower Pole Tips

SLAC
 LCLS-MMF
 LEITZ CMM

Undulator Pole Tip Angles
 Post Magnetic Alignment

DATE: 17-SEP-2007
 UNDUULATOR # 25
 DATASET # 0001
 PROGRAM VERSION 2.2

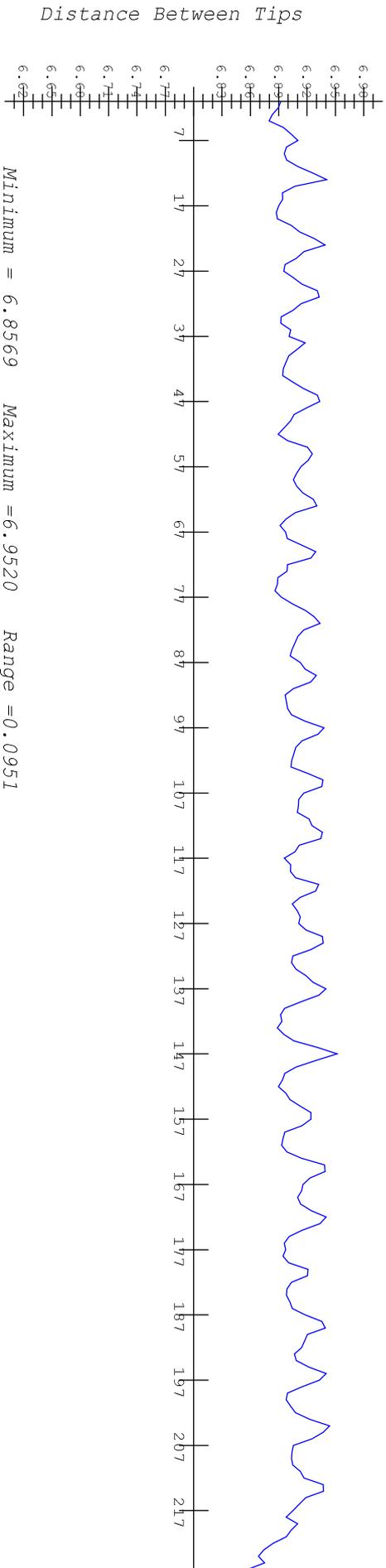
Pole Tip Number ----->



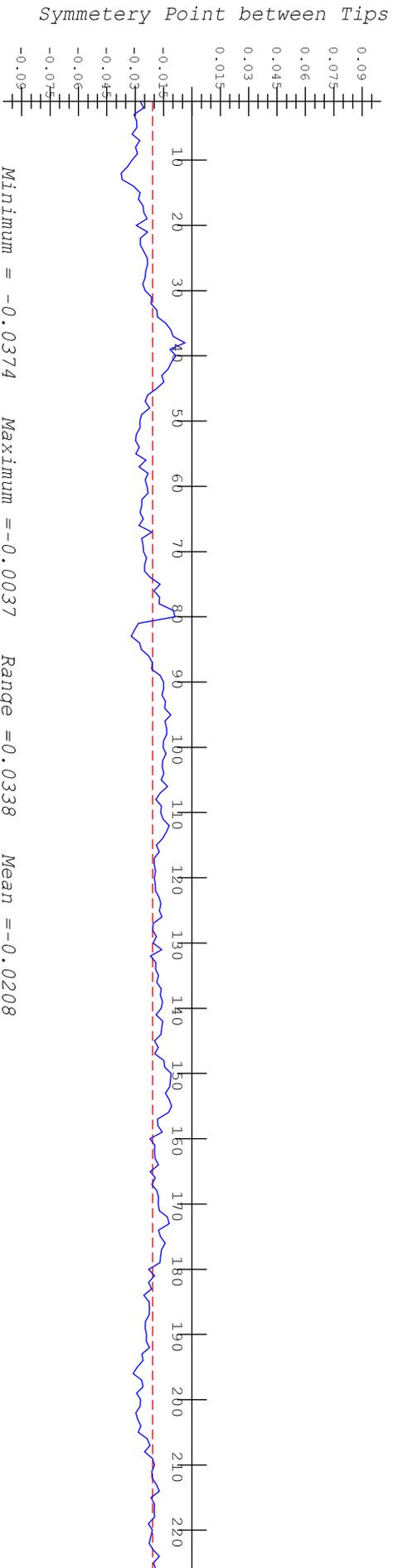
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Undulator Pole Tip Location
 Post Magnetic Alignment

DATE: 17-SEP-2007
 UNDUULATOR # 25
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 PROGRAM VERSION 2.2



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

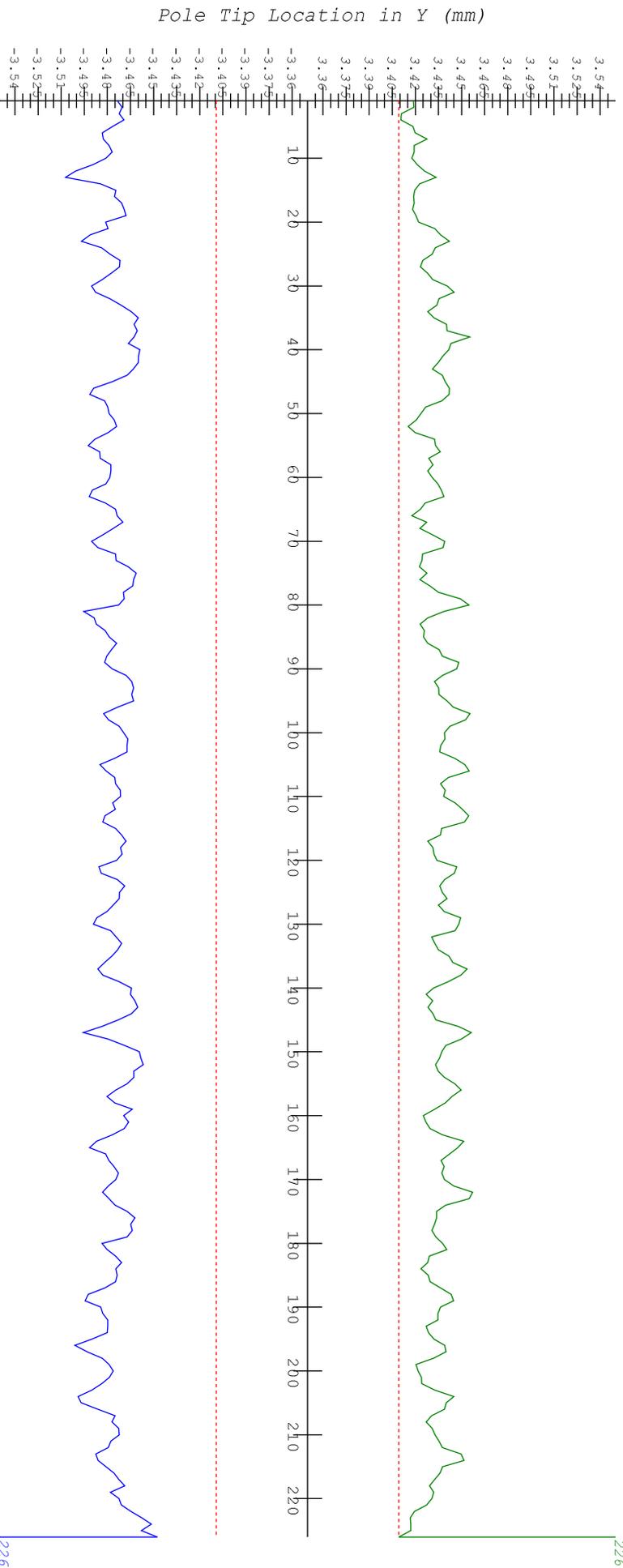
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Undulator Pole Tip Location
 Post Magnetic Alignment

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Maximum Chamber Gap = 6.8186

Minimum = 3.4093 Maximum = 3.4572 Range = 0.0478



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: 17-SEP-2007
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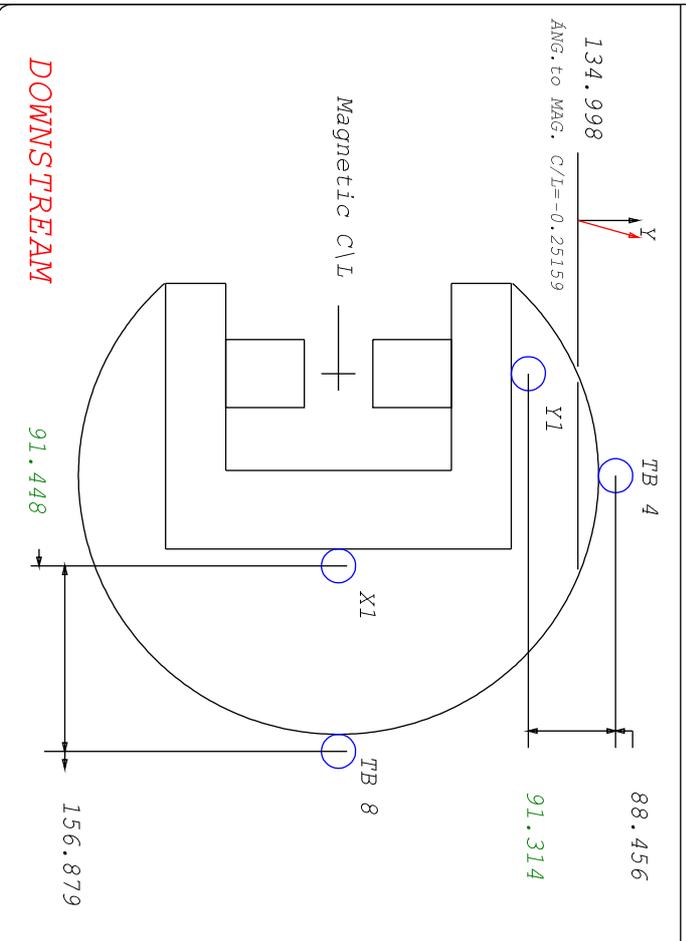
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.1067	179.8349	-1558.136
2	-0.1536	179.7537	-584.5262
3	-0.0230	179.7148	591.4564
4	0.1396	179.7703	1562.2683
5	248.1217	0.1464	-1558.196
6	248.0820	0.2496	-584.5987
7	248.1801	0.0895	591.3792
8	248.3267	0.1603	1562.2255

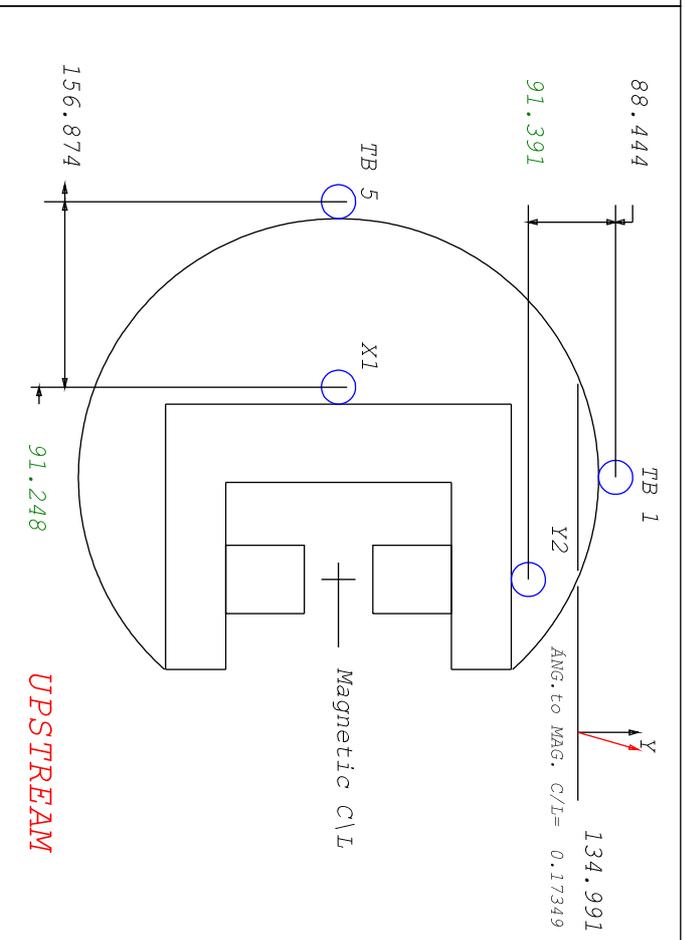
	C/L Offset	Length
Top Magnetic Structure	-0.029	3380.792
Bottom Magnetic Structure	0.029	3380.852
Strongback	0.507	3399.916

Dimensions in mm

Angles in mrad



DOWNSTREAM

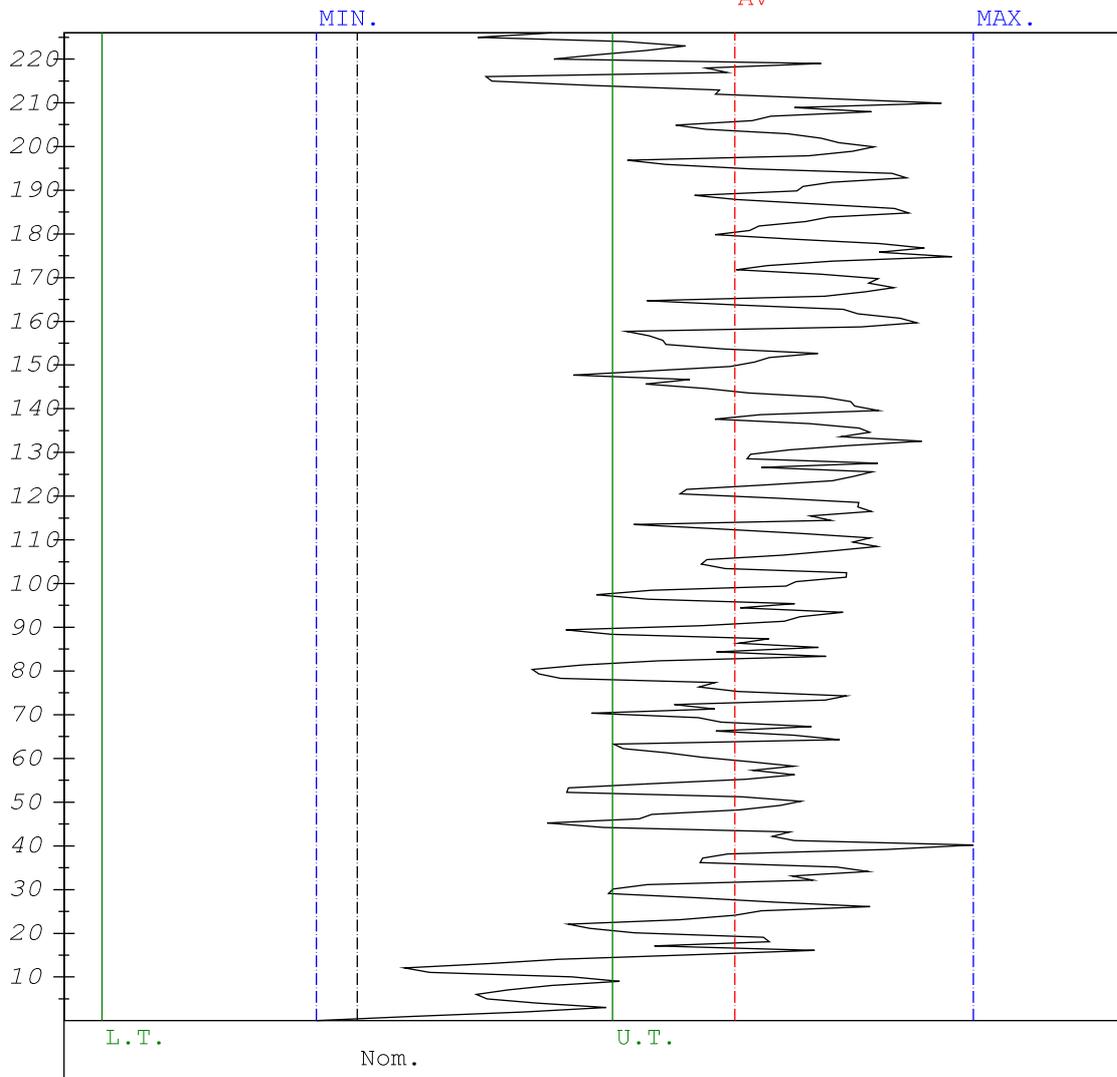
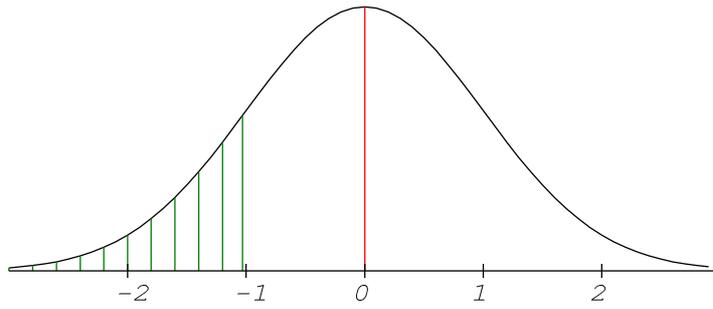


UPSTREAM

SLAC
LCLS-MMF
LEITZ CMM

Undulator Dimensional Fiducialization
Post Magnetic Alignment

DATE: 17-SEP-2007
UNDULATOR # 25
DATASET # 0001
PROGRAM VERSION 2.2



Nominal : 4.5000	Averag : 5.2392	Cent.-Dev. : 0.7392
Up. Tol. : 0.5	Maximum : 5.7062	U.Tol.Ex. > : 84.9 %
Low.Tol. : -0.5	Minimum : 4.4197	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2322	In Tolerance: 15.1 %
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:17-SEP-2007 UNDULATOR # 25 DATASET # 0001 PROGRAM VERSION 2.2</p>
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