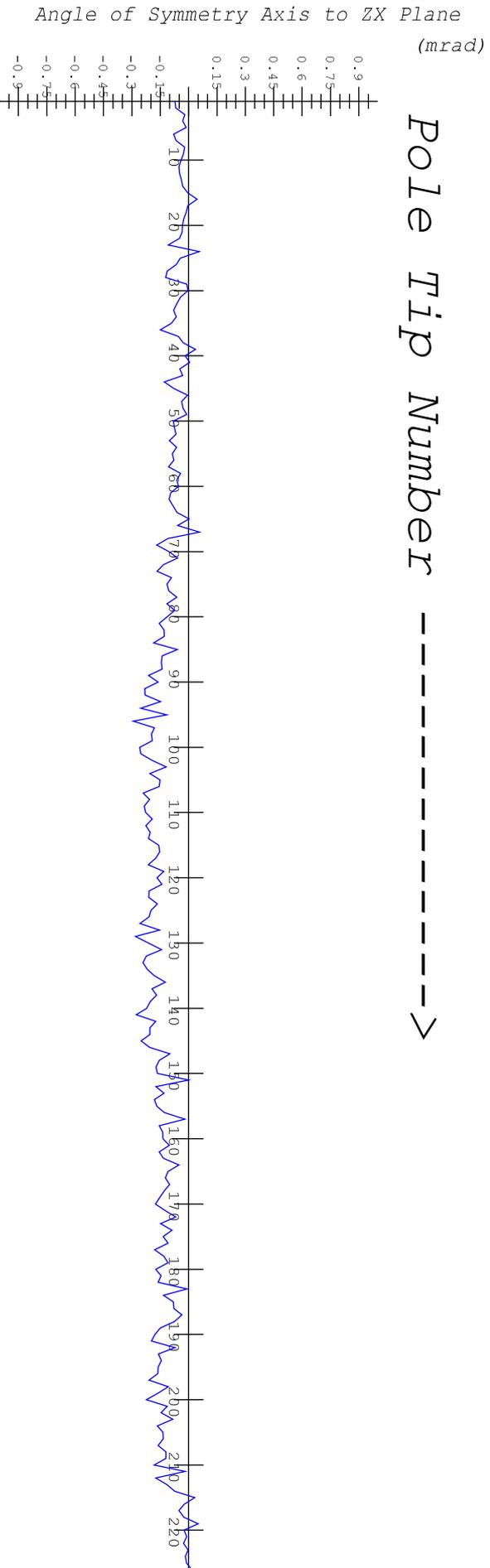


Pole Tip Number ----->



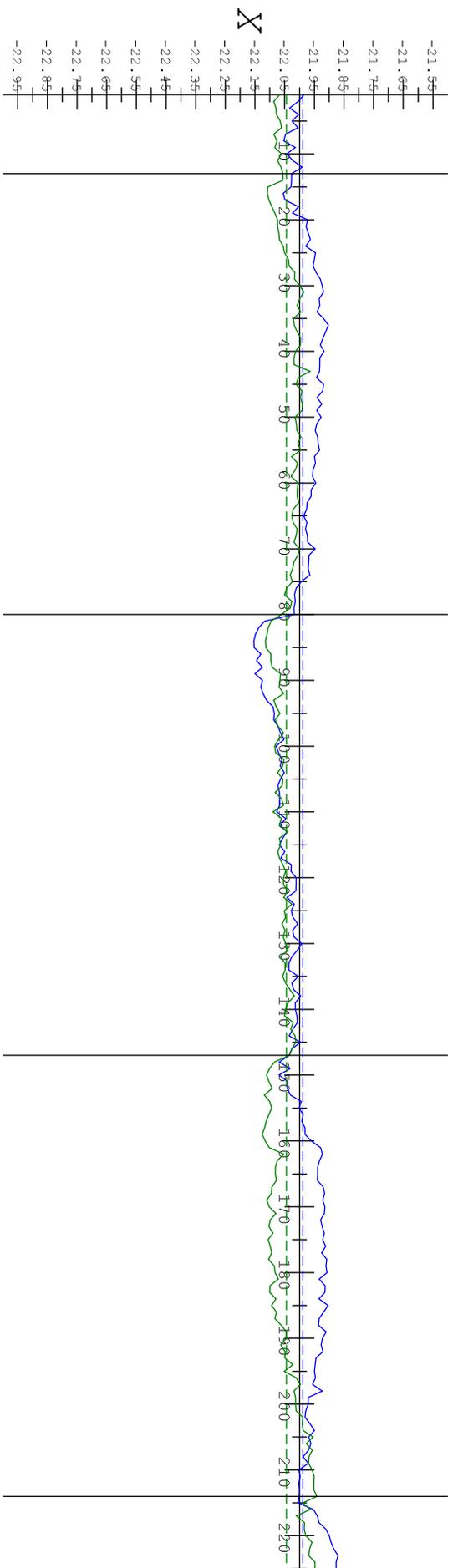
Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
 Included Angle is the angle between the Upper and Lower Pole Tips



Undulator Pole Tip Angles  
 Post Magnetic Alignment

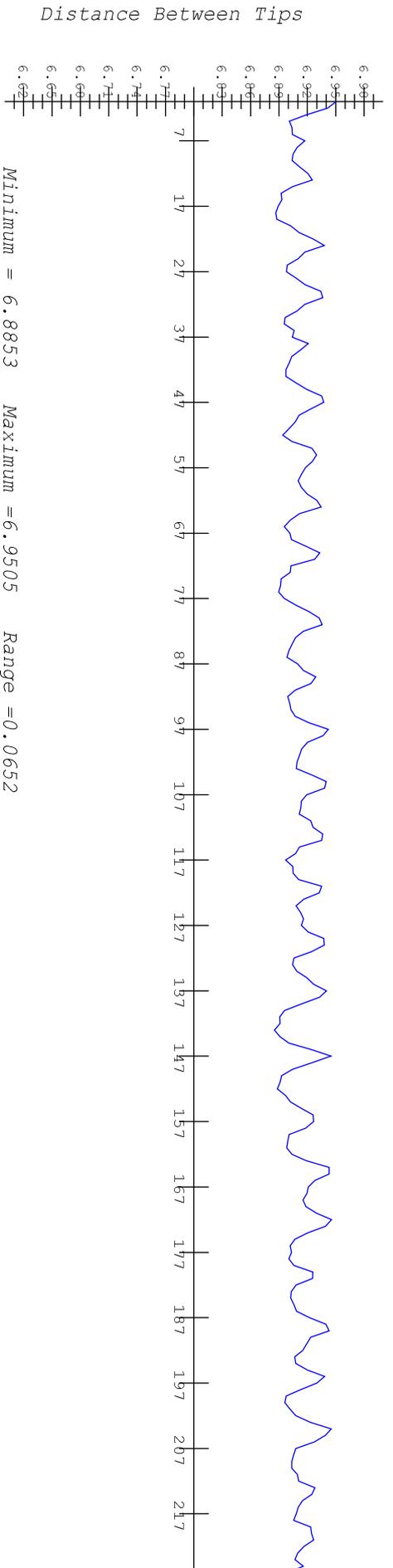
DATE: 31-MAR-2009  
 UNDUULATOR #25  
 DATASET # 0002  
 PROGRAM VERSION 2.9

# Pole Tip Number ----->



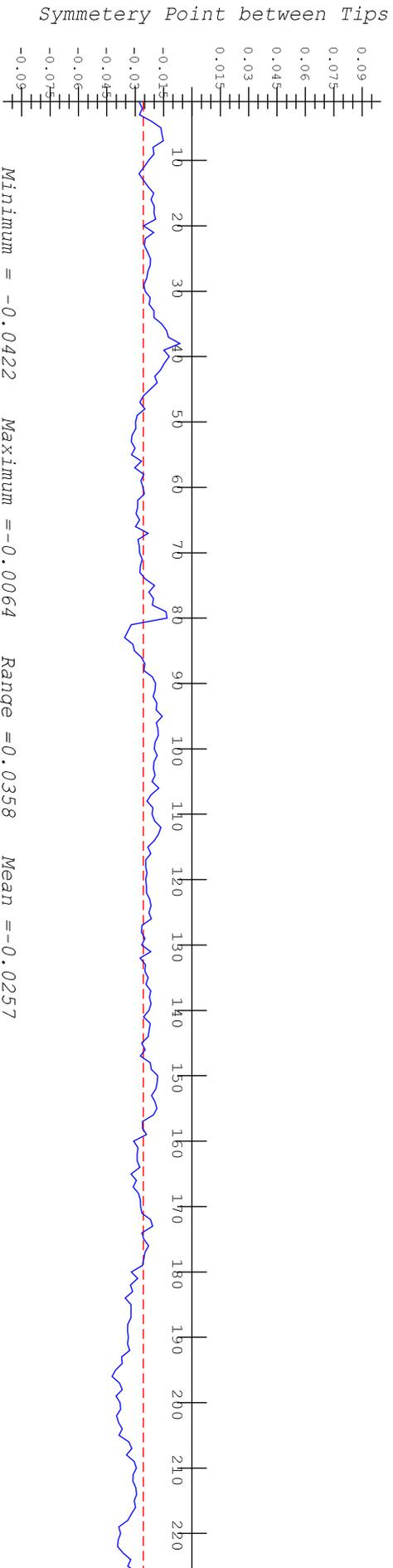
## Undulator Pole Tip Location Post Magnetic Alignment

DATE: 31-MAR-2009  
 UNDUULATOR #25  
 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

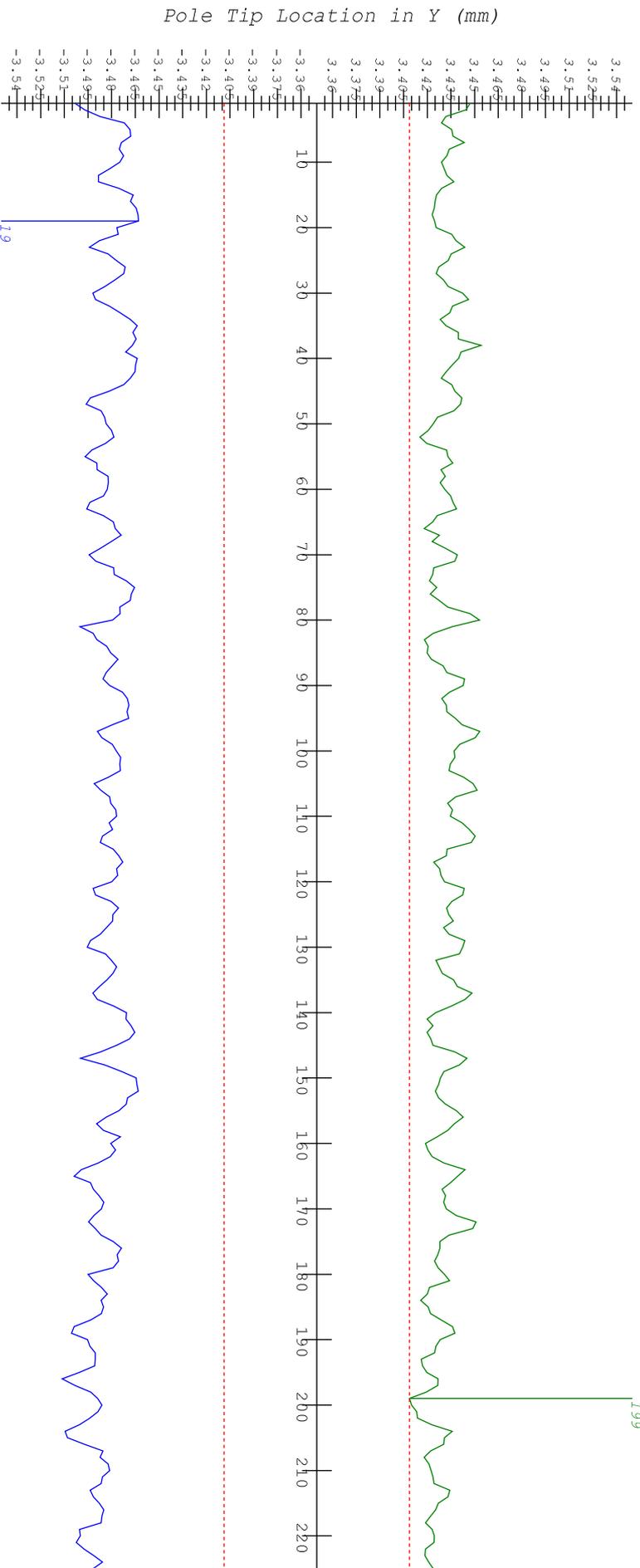


Undulator Pole Tip Location  
 Post Magnetic Alignment

DATE: 31-MAR-2009  
 UNDUULATOR #25  
 DATASET # 0002  
 PROGRAM VERSION 2.9

Maximum Chamber Gap = 6.8174

Minimum = 3.4087 Maximum = 3.4541 Range = 0.0454



Minimum = -3.5113 Maximum = -3.4630 Range = 0.0483

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: 31-MAR-2009  
UNDULATOR #25  
DATASET # 0002  
PROGRAM VERSION 2.9



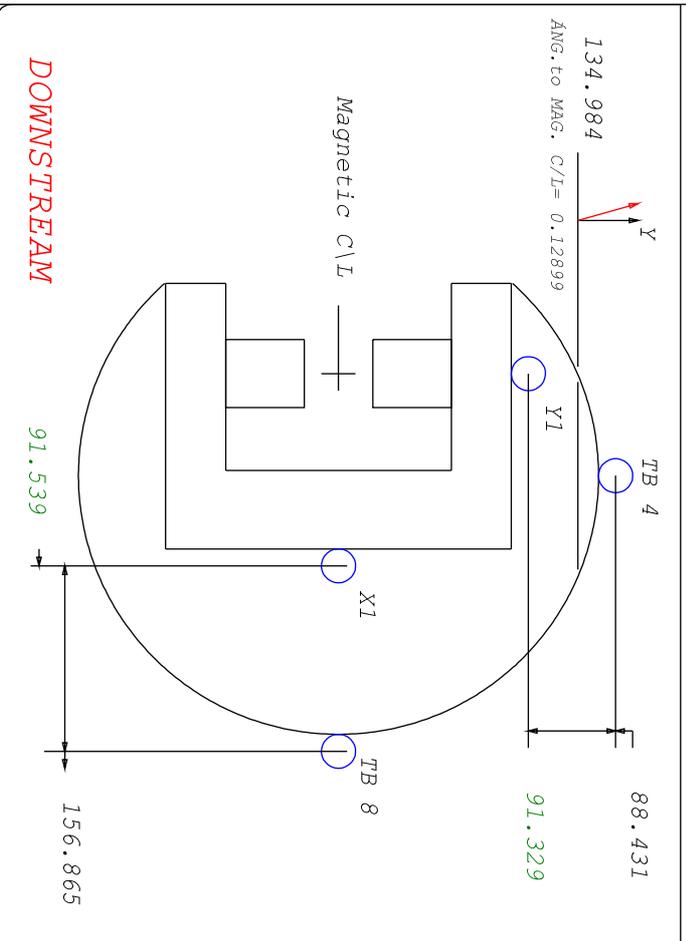
TOOLING BALL LOCATIONS

NUM.	X	Y	Z
1	-0.0498	179.8355	-1558.148
2	-0.1263	179.7516	-584.5299
3	0.0130	179.7081	591.4634
4	0.2110	179.7601	1562.2828
5	248.1869	0.1536	-1558.199
6	248.1181	0.2518	-584.6017
7	248.2216	0.0868	591.3759
8	248.4039	0.1519	1562.2226

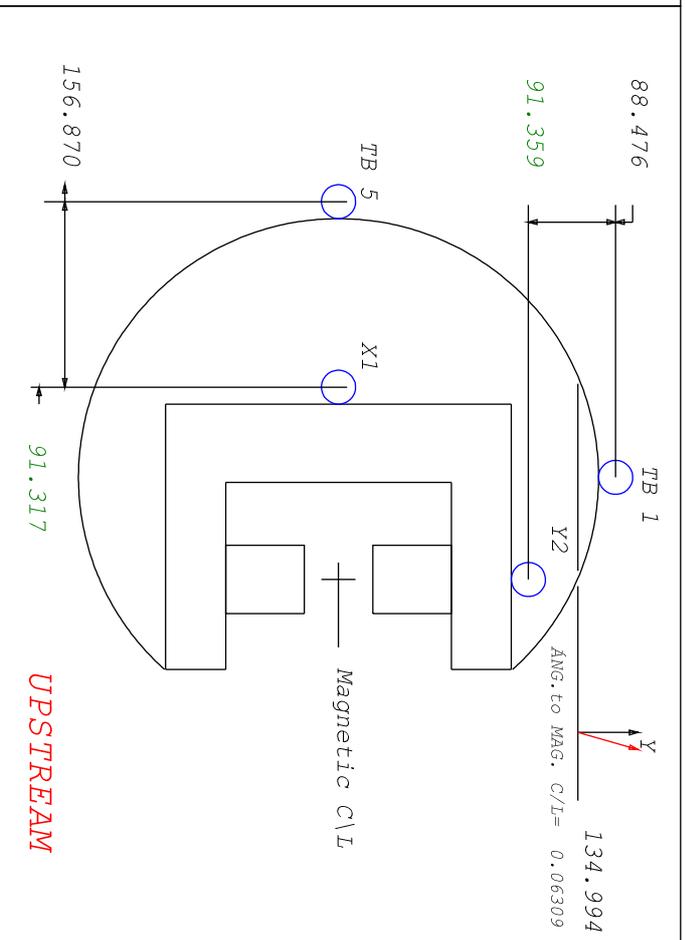
	C/L Offset	Length
Top Magnetic Structure	-0.024	3380.746
Bottom Magnetic Structure	0.024	3380.827
Strongback	0.497	3399.930

Dimensions in mm

Angles in mrad



DOWNSTREAM

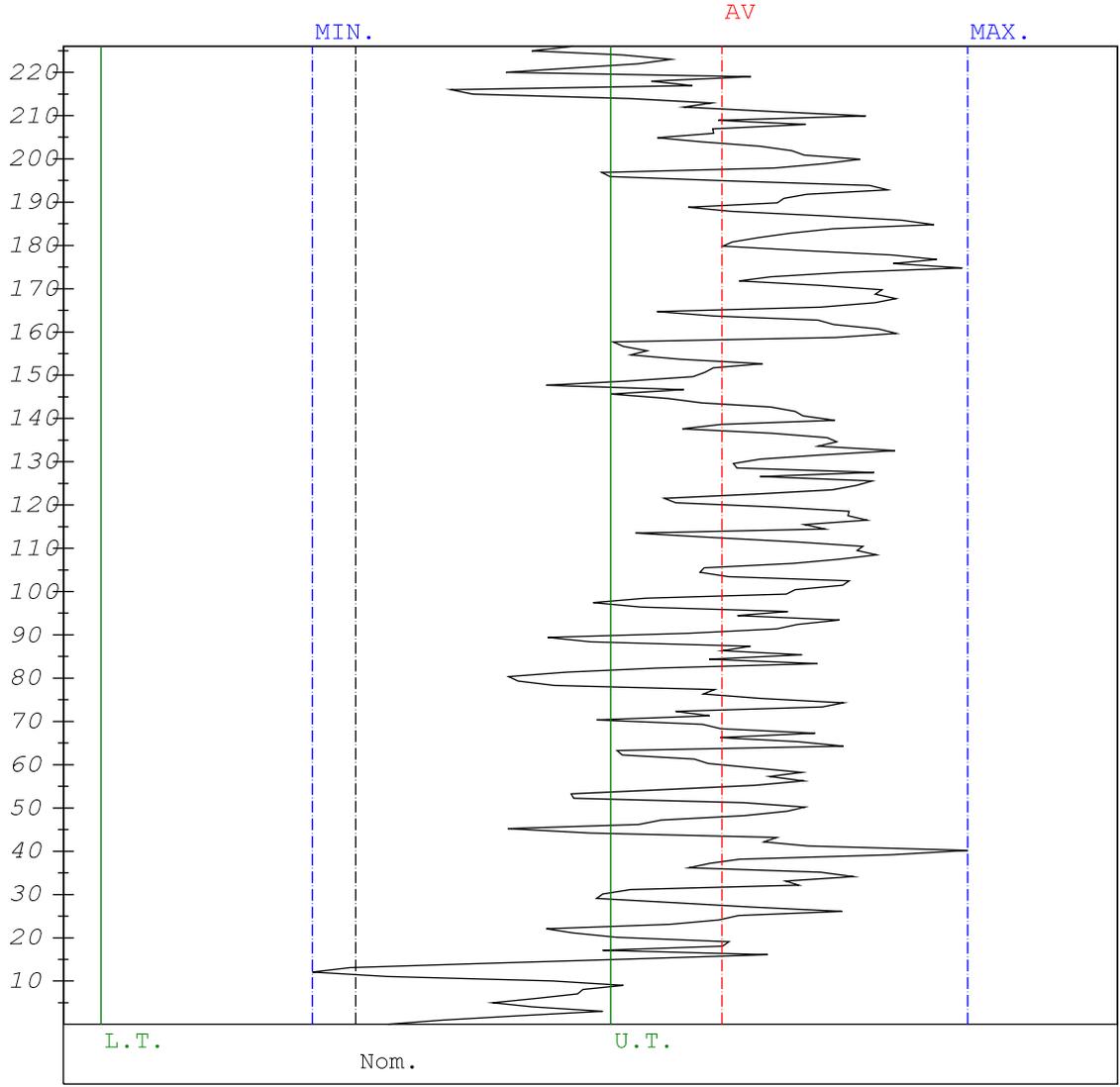
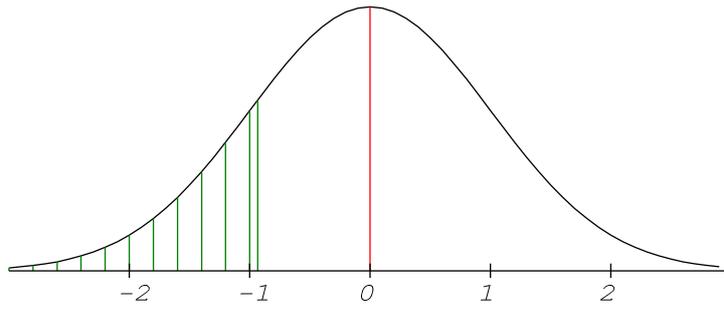


UPSTREAM



Undulator Dimensional Fiducialization  
Post Magnetic Alignment

DATE: 31-MAR-2009  
UNDULATOR #25  
DATASET # 0002  
PROGRAM VERSION 2.9



Nominal : 4.5000	Averag : 5.2184	Cent.-Dev. : 0.7184
Up. Tol. : 0.5	Maximum : 5.7001	U.Tol.Ex. > : 82.5 %
Low.Tol. : -0.5	Minimum : 4.4149	L.Tol.Ex. < : 0.0 %
Spl.Size : 226	Stand.-Dev.: 0.2339	In Tolerance: 17.5 %
Outlier : 0	Distribution : NOR	Dimension : mrad