

Actual points : \* \* \*

Neg. Deviation : ———

Pos. Deviation : ———

Notation : **UNDULATOR**

Producer :

Draw. No. :

Ser. No. : 28

Part No. :

Department:

Calcul. .: **Bestfit (Gauss)**

Filtering: **No**

Probe dia.: 5 mm

Element : **PLA\_B**

X

Y

Z

No.

Form .....: **0.1806**

Neg. Deviat.: **-0.0527**

**115.3956**

**96.9947**

**-1486.041**

**14**

Error Magnif.: **3000**

Pos. Deviat.: **0.1278**

**115.5827**

**96.9967**

**-3384.957**

**30**

No. of points: **62**

**MESSTECHNIK WETZLAR**

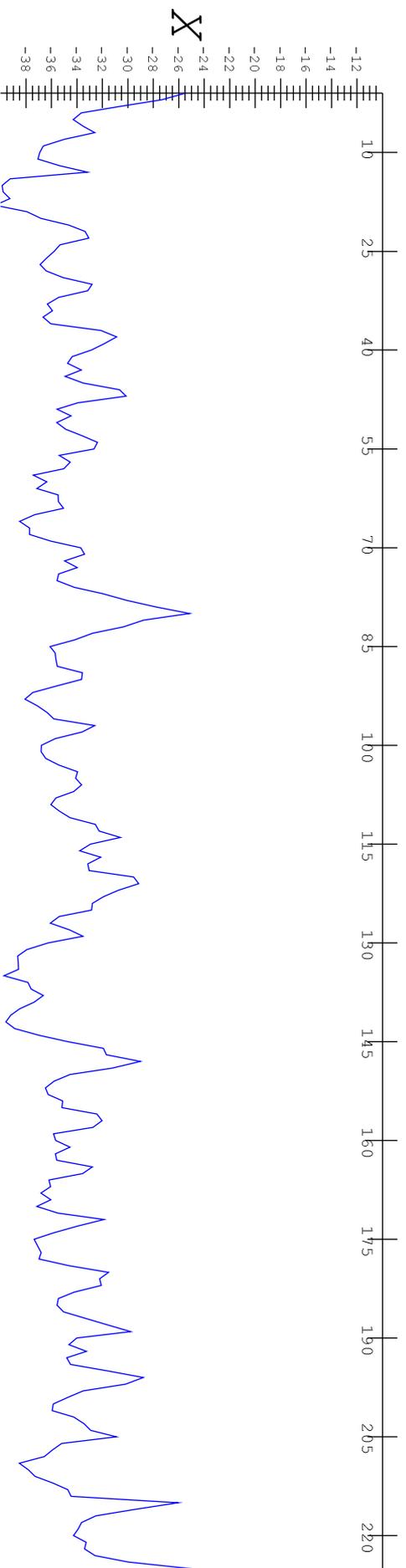


**FLATNESS**  
**ISO 1101**

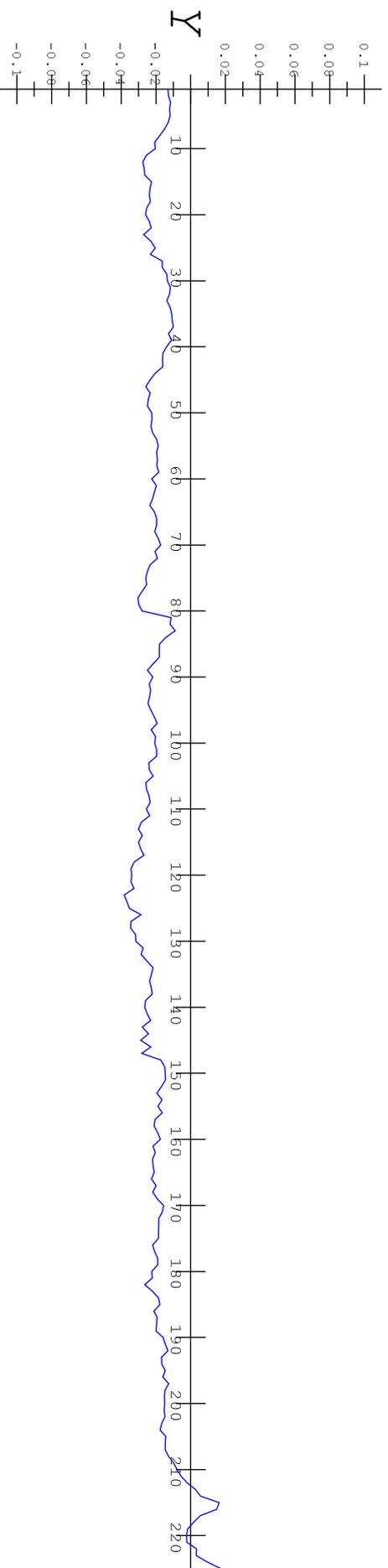
Inspector : **Quindos**

Date .....: **23-FEB-2009**

Time .....: **15:02:43**



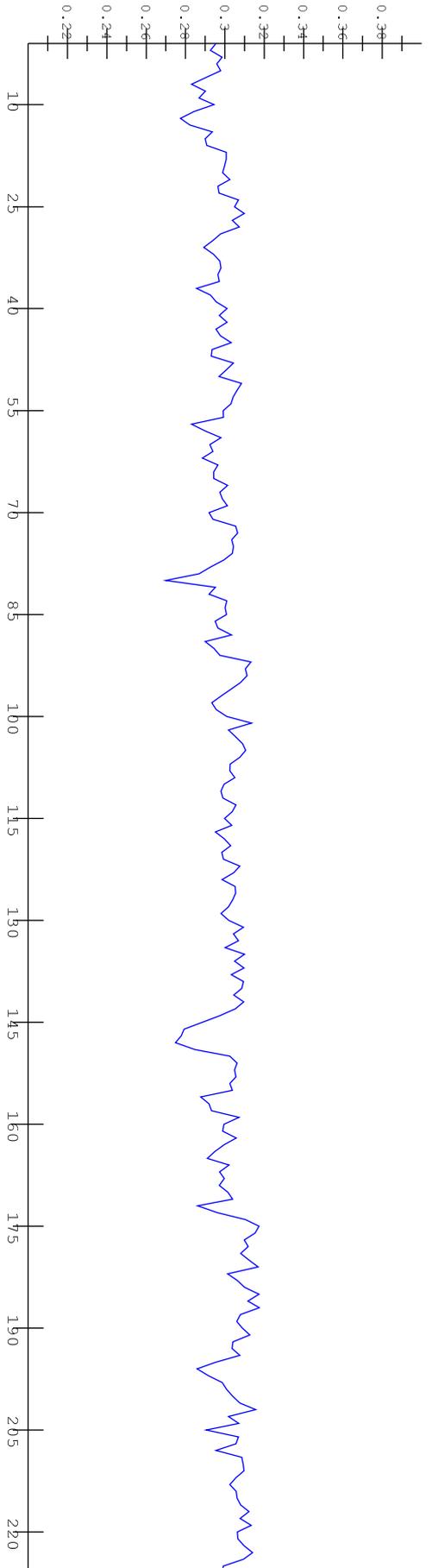
Pole Tip Number ----->



Offsets of Pole Tip Symmetry Point from Nominal Undulator center line  
 Pole Tip Symmetry Point is the point where the symmetry axis between tips is bisected by the 6.8mm cross section

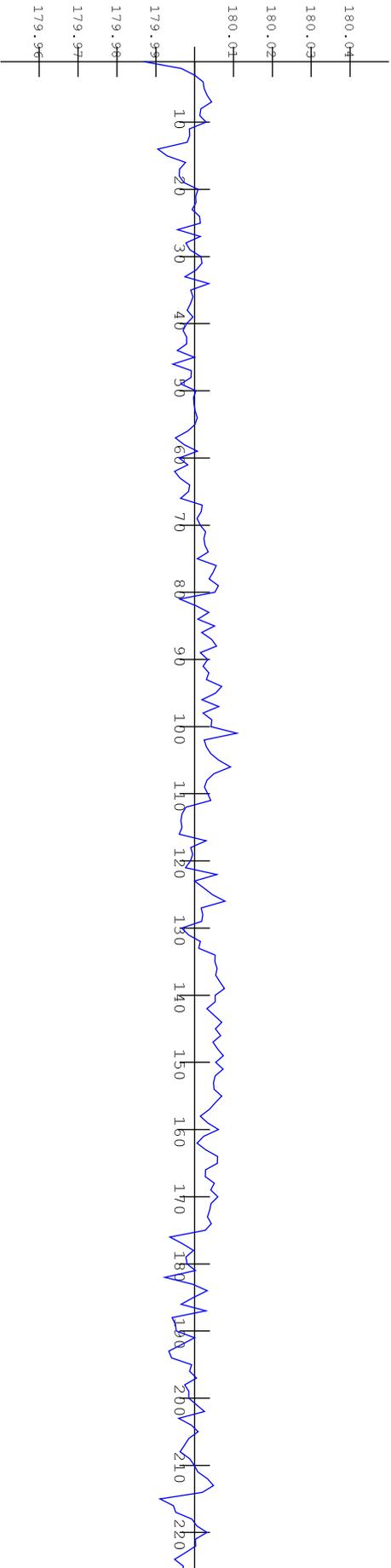
<p><b>SLAC</b>          LCLS-MMF          LEITZ CMM</p>	<p>Undulator Pole Tip Offsets          Measured unrestrained</p>	<p>DATE: 23-FEB-2009          UNDUULATOR # 28</p>
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Included Angle Between Tips



Pole Tip Number ----->

Angle of Symmetry Axis to ZX Plane

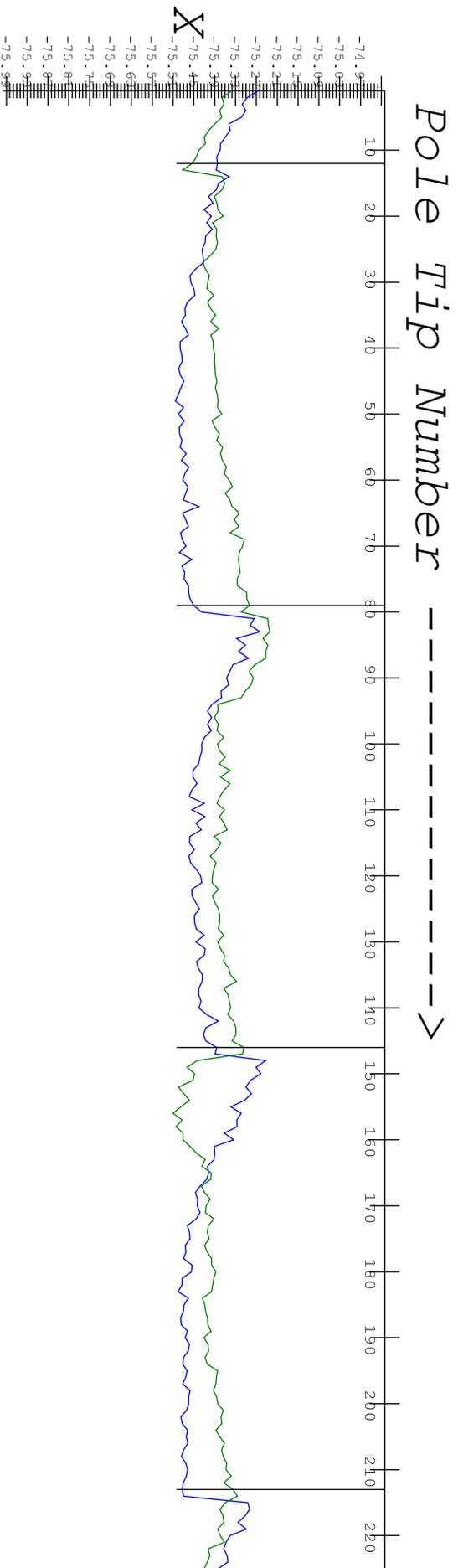


Symmetry Axis is the symmetry axis between the Upper and Lower Pole Tips  
Included Angle is the angle between the Upper and Lower Pole Tips

**SLAC**  
LCLS-MMF  
LEITZ CMM

Undulator Pole Tip Angles  
Measured unrestrained

DATE: 23-FEB-2009  
UNDUULATOR #28

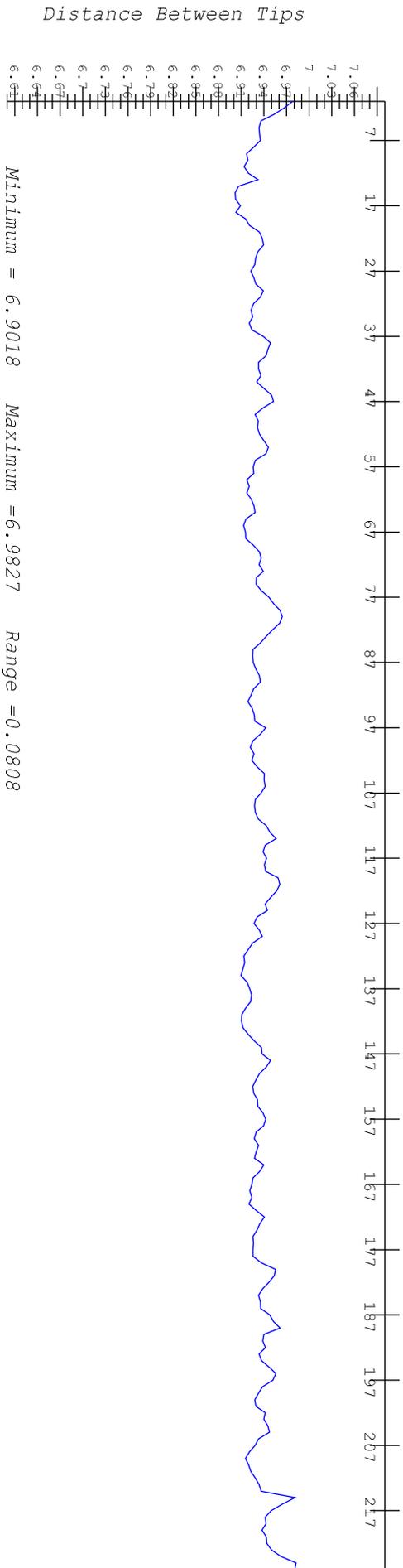


Green = Point on Front face of Upper Pole Tip 10mm above Nominal C/L  
 Blue = Point on Front face of Lower Pole Tip 10mm below Nominal C/L

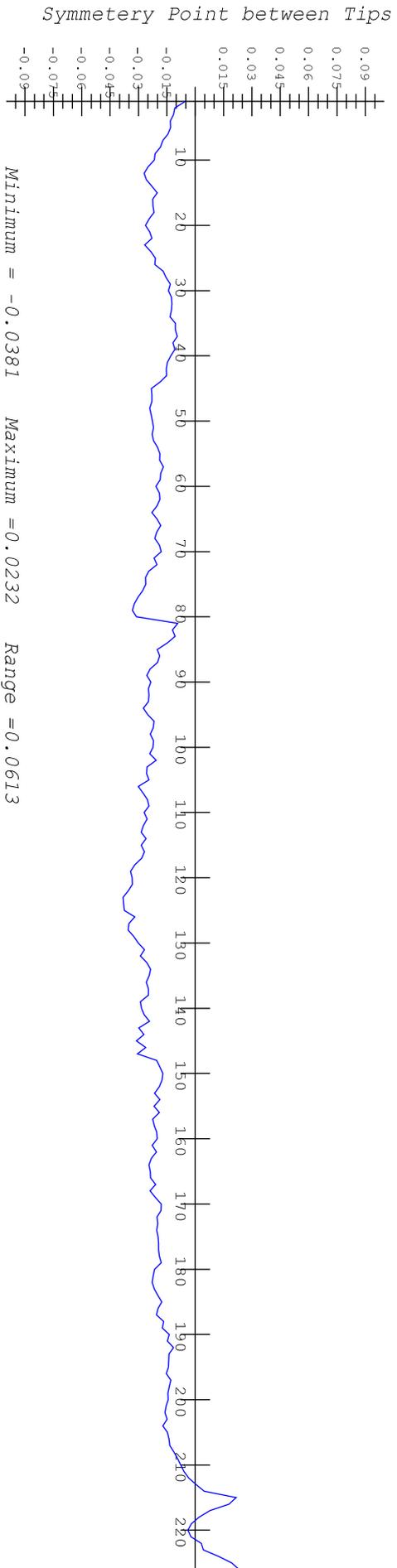
**SLAC**  
 LCLS-MMF  
 LEITZ CMM

Undulator Pole Tip Location  
 Measured unrestrained

DATE: 23-FEB-2009  
 UNDUULATOR # 28



Pole Tip Number ----->

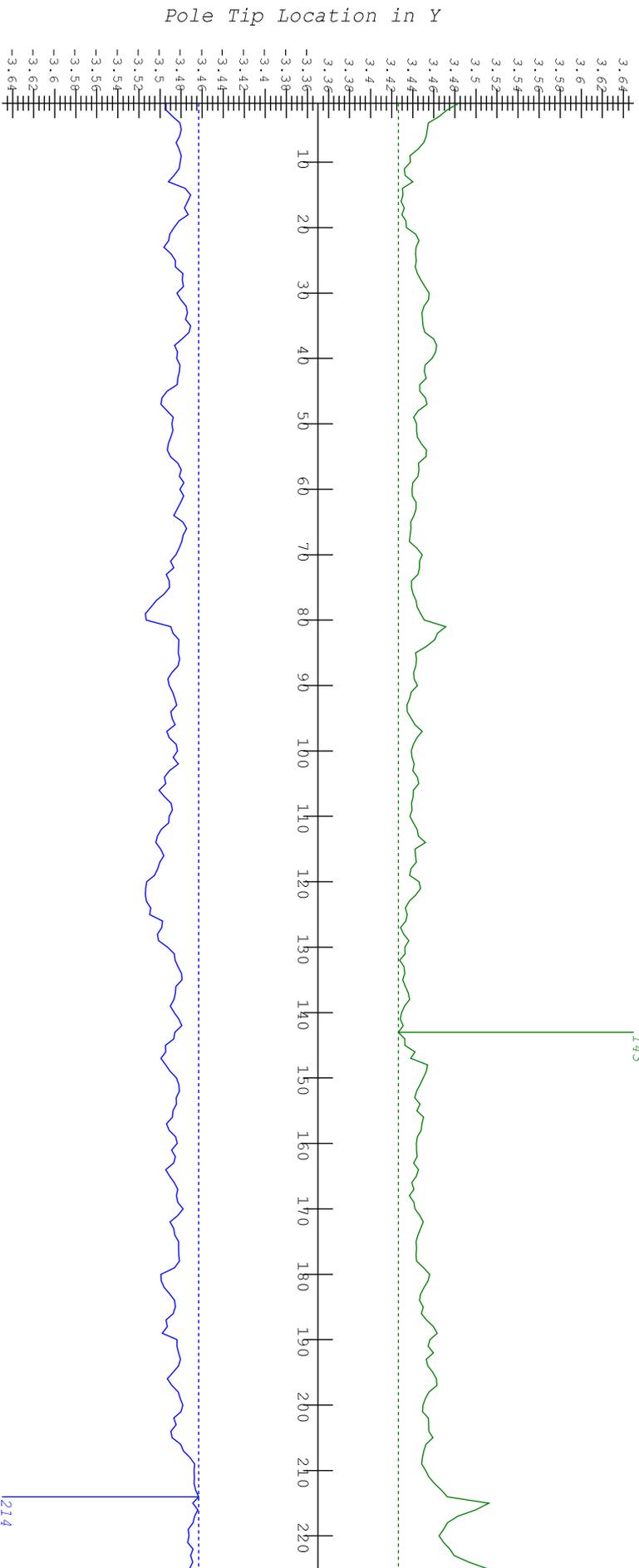


Symmetry Point is the symmetry point between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-  
 Distance Between Tips is the distance between the Upper and Lower Pole Tips were they intersect a plane 53mm from Datum -B-

<p style="font-size: small; margin: 0;"> <b>SLAC</b>        LCLS-MMF        LEITZ CMM     </p>	<p style="font-size: x-large; margin: 0;">Undulator Pole Tip Location</p> <p style="font-size: large; margin: 0;">Measured unrestrained</p>	<p style="font-size: x-large; margin: 0;">DATE: 23-FEB-2009</p> <p style="font-size: large; margin: 0;">UNDUULATOR # 28</p>
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MINIMUM GAP = 6.8899

Minimum = 3.4265    Maximum = 3.5137    Range = 0.0872



Minimum = -3.5140    Maximum = -3.4634    Range = 0.0506

Pole Tip Number ----->

Green = The position of the Upper Pole Tips at 53mm from Datum -B-  
Blue = The position of the Lower Pole Tips at 53mm from Datum -B-  
Min. Gap = The minimum gap between pole tips 53mm from Datum -B-

**SLAC**  
LCLS-MMF  
LEITZ CMM

Undulator Pole Tip Location  
Measured unrestrained

DATE: 23-FEB-2009  
UNDUULATOR # 28