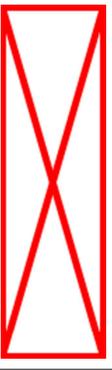


Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 1

Regression Line Through Points = -----  
Dimensions in mm



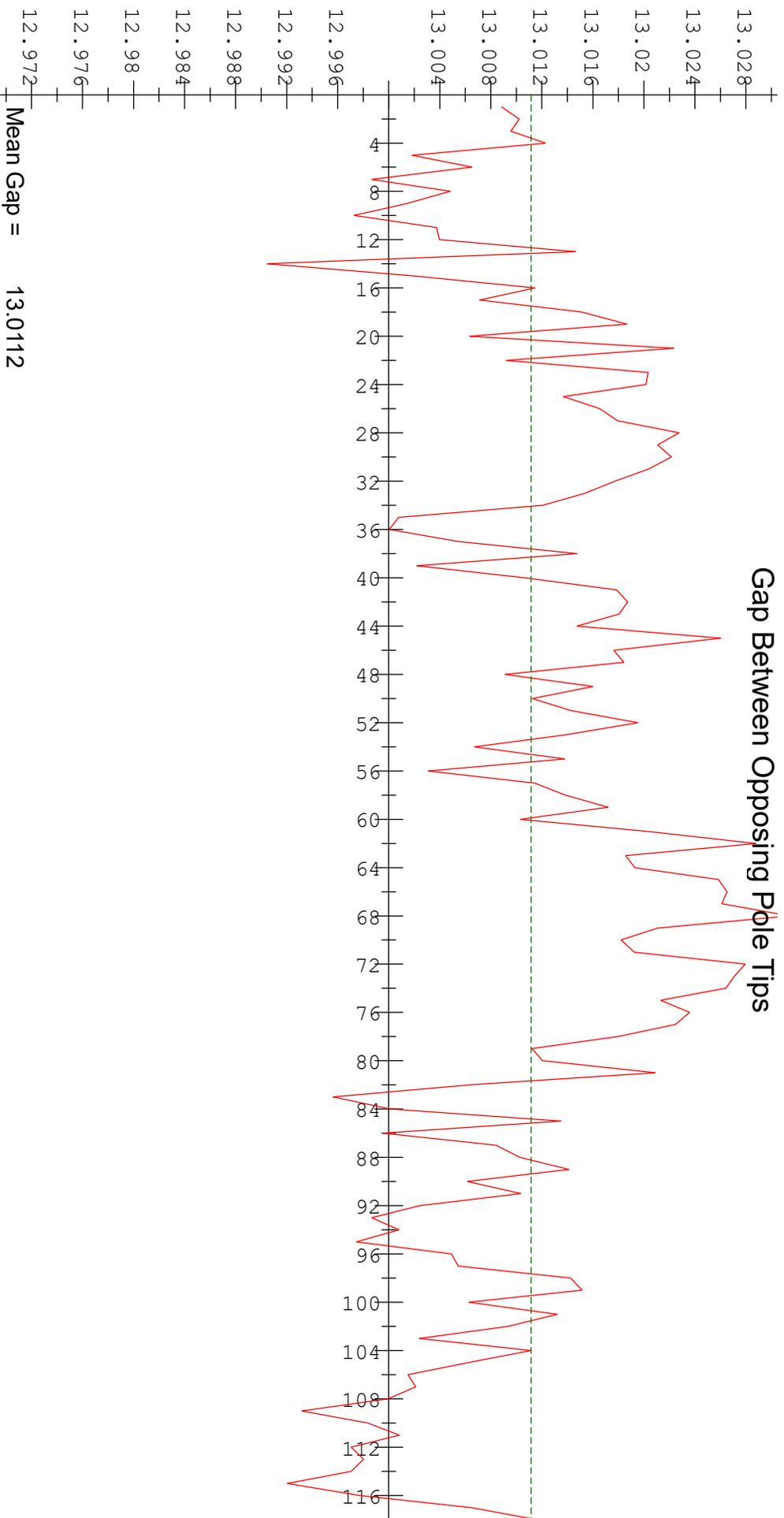
METROLOGY

**LCLS II-HE - SXR Undulator**

Nominal Gap = 13  
Gap Reading = 13.0000  
US Encoder = 13.0000

Nominal Taper = 0.000  
DS Encoder = 13.0000

30-AUG-2022  
S/N = 000  
D/S = 0001  
Run = 10



Step Between Measured Pole Tips = 1

Dimensions in mm

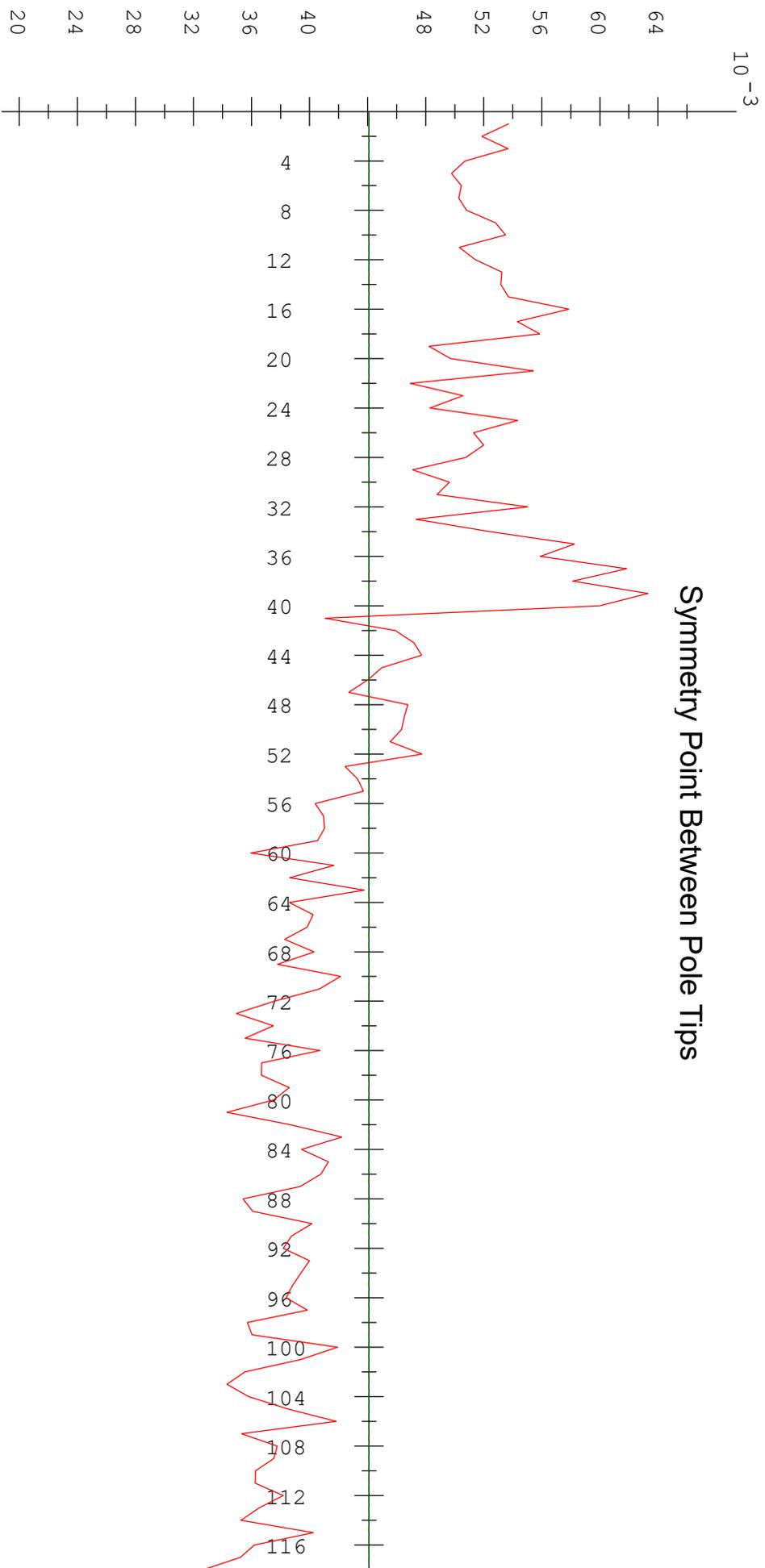


METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 13      Nominal Taper = 0.000  
 Gap Reading = 13.0000      US Encoder = 13.0000      DS Encoder = 13.0000

30-AUG-2022  
 S/N = 000  
 D/S = 0001  
 Run = 10



Mean Symmetry Value = 0.0441

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

### LCLS II-HE - SXR Undulator

Nominal Gap = 13      Nominal Taper = 0.000  
 Gap Reading = 13.0000      US Encoder = 13.0000      DS Encoder = 13.0000

30-AUG-2022  
 S/N = 000  
 D/S = 0001  
 Run = 10

## Top and Bottom Jaw Regression Line Intersect Points

Jaw	First Pole <i>(Pole -1)</i>	US Actuator <i>(Pole 28)</i>	DS Actuator <i>(Pole 90)</i>	Last Pole <i>(Pole 118)</i>
<b>Top</b>	6.5616	6.5561	6.5434	6.5377
<b>Bottom</b>	-6.4527	-6.4567	-6.4661	-6.4703
<b>Gap</b>	13.0143			13.0080
<b>Taper</b>				-0.0063

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.5497	-6.4615	13.0112	0.0441

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	974.854
<b>Top Jaw Pitch (mrad)</b>	-0.007
<b>Bottom Jaw Pitch(mrad)</b>	-0.005
<b>Minimum Effective Gap</b>	12.972
<b>Reference Block Gap</b>	6.801

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 13      Nominal Taper = 0.000  
 Gap Reading = 13.0000      US Encoder = 13.0000      DS Encoder = 13.0000

30-AUG-2022  
 S/N = 000  
 D/S = 0001  
 Run = 10