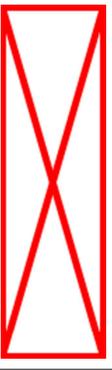


Y Value Scales Centered on Mean Values  
Step Between Measured Pole Tips = 1

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

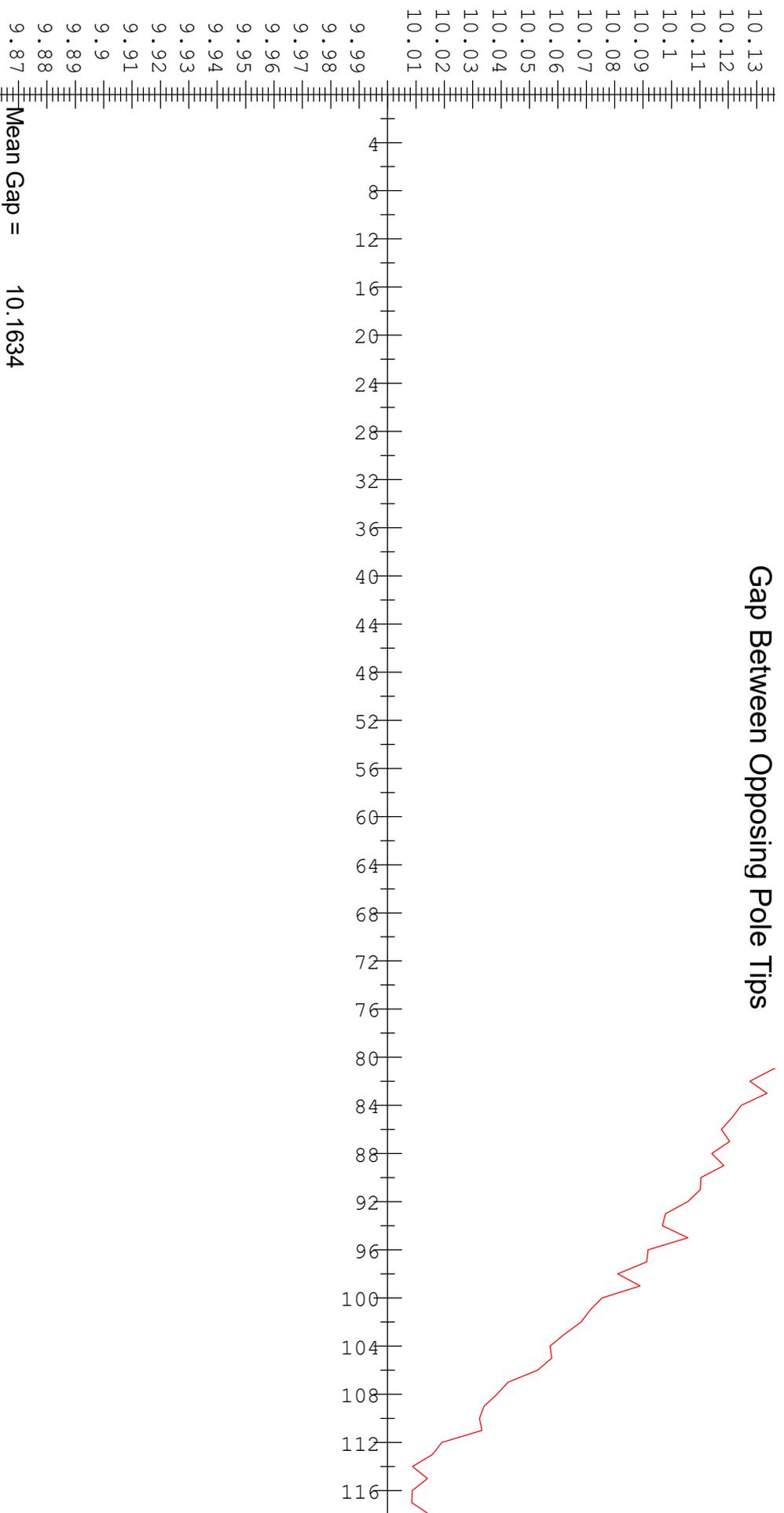


METROLOGY

**LCLS II-HE - SXR Undulator**

Nominal Gap = 10      Nominal Taper = 0.000  
Gap Reading = 9.9998      US Encoder = 10.0000      DS Encoder = 9.9996

22-MAY-2024  
S/N = 023  
D/S = 0001  
Run = 2



Step Between Measured Pole Tips = 1

Dimensions in mm



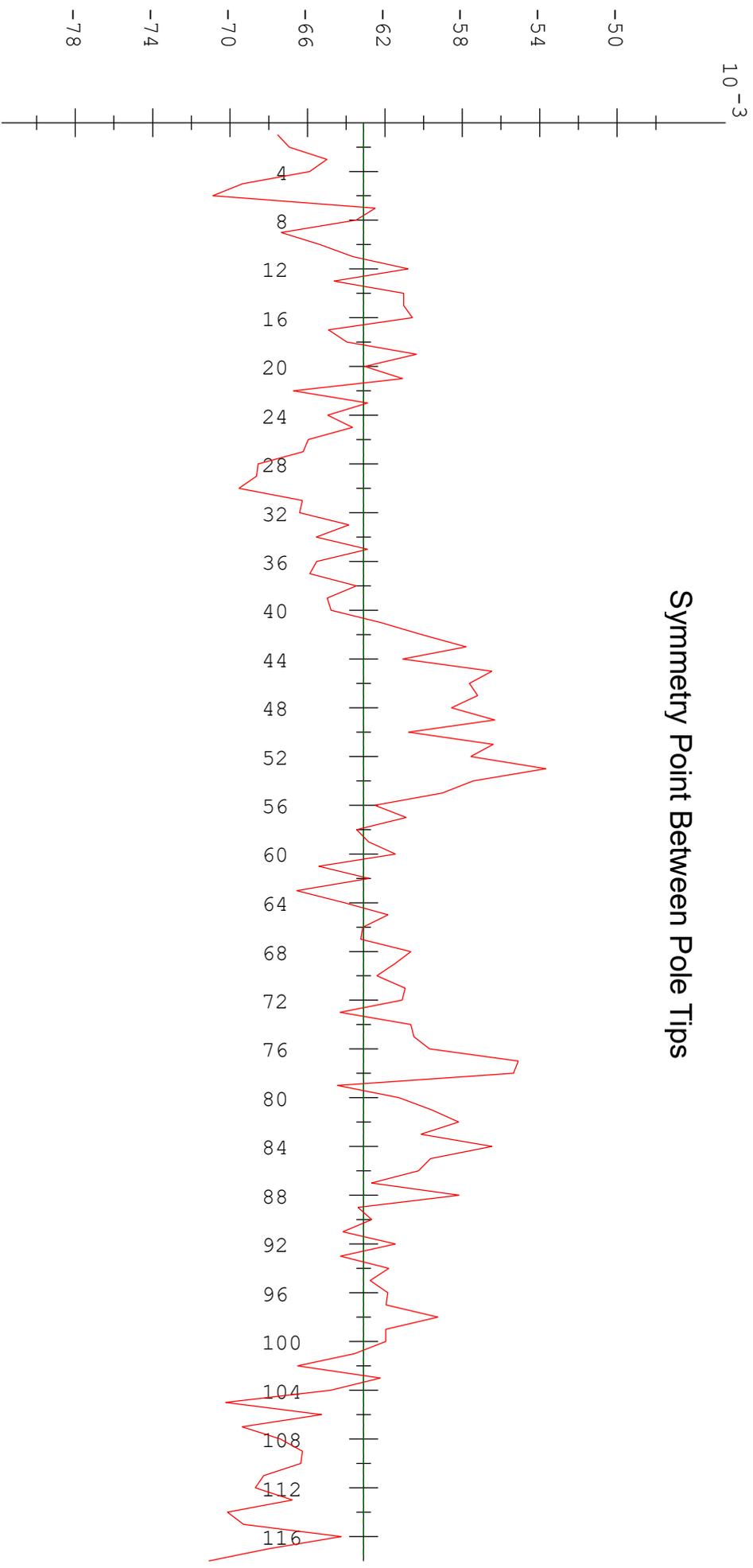
METROLOGY

# LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
 Gap Reading = 9.9998      US Encoder = 10.0000      DS Encoder = 9.9996

22-MAY-2024  
 S/N = 023  
 D/S = 0001  
 Run = 2

### Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0631

Step Between Measured Pole Tips = 1

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10

Gap Reading = 9.9998

US Encoder = 10.0000

DS Encoder = 9.9996

Nominal Taper = 0.000

22-MAY-2024  
S/N = 023  
D/S = 0001  
Run = 2

## 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>	5.0791	5.0512	4.9871	4.9581
<b>Bottom</b>	-5.2052	-5.1773	-5.1133	-5.0844
<b>Gap</b>	10.2843			10.0425
<b>Taper</b>				-0.2418

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0186	-5.1448	10.1634	-0.0631

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	979.438
<b>Top Jaw Pitch (mrad)</b>	-0.037
<b>Bottom Jaw Pitch(mrad)</b>	0.037
<b>Minimum Effective Gap</b>	10.003
<b>Reference Block Gap</b>	6.799

Dimensions in mm



METROLOGY

## LCLS II-HE - SXR Undulator

Nominal Gap = 10      Nominal Taper = 0.000  
 Gap Reading = 9.9998      US Encoder = 10.0000      DS Encoder = 9.9996

22-MAY-2024  
 S/N = 023  
 D/S = 0001  
 Run = 2