

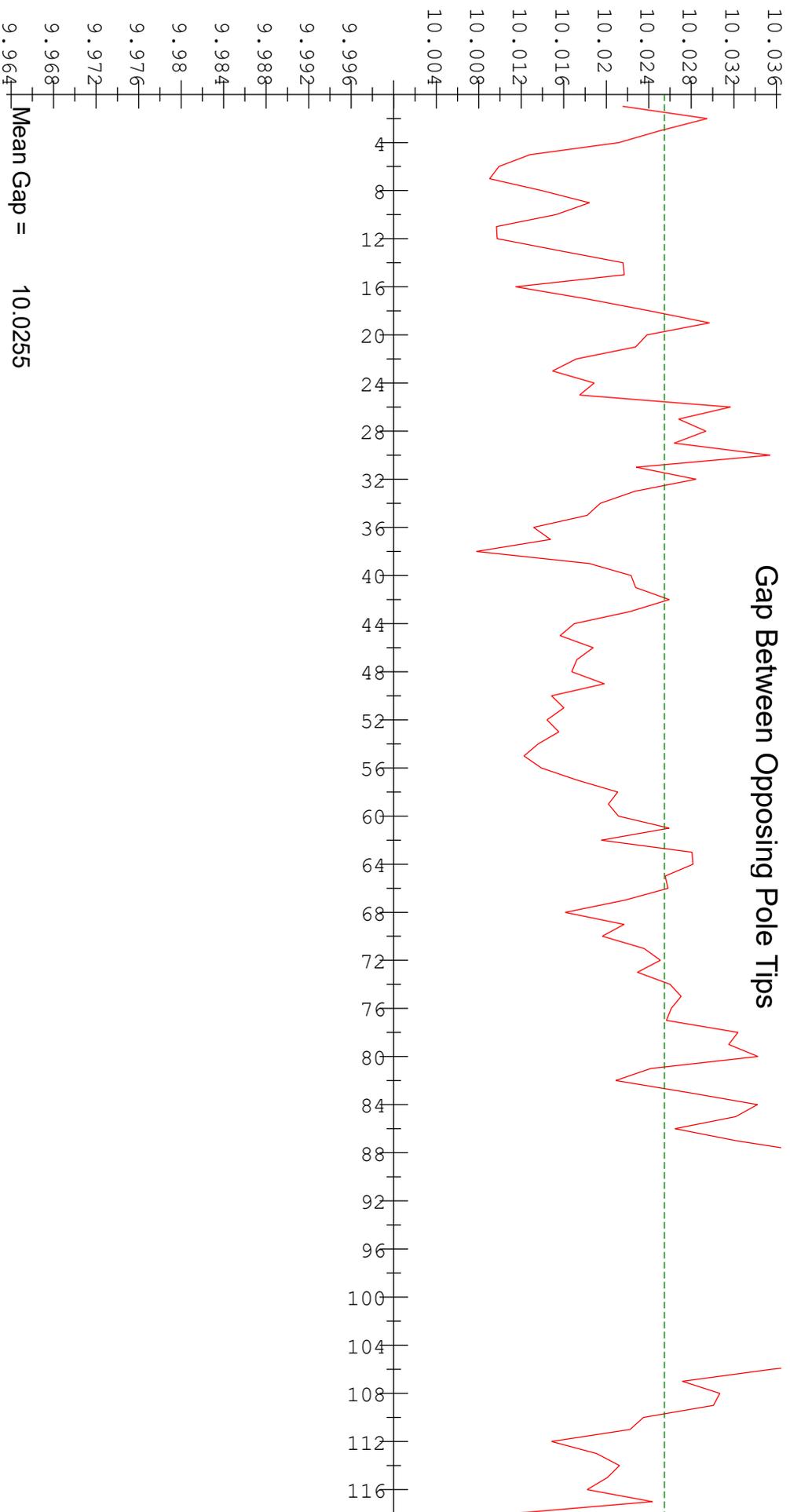
METROLOGY

LCLS II-HE - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

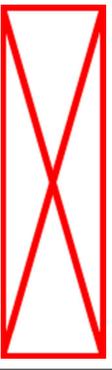
Gap Reading = 10.0004 US Encoder = 10.0006 DS Encoder = 10.0002

15-MAY-2025
S/N = 021
D/S = 0001
Run = 3



Step Between Measured Pole Tips = 1

Dimensions in mm



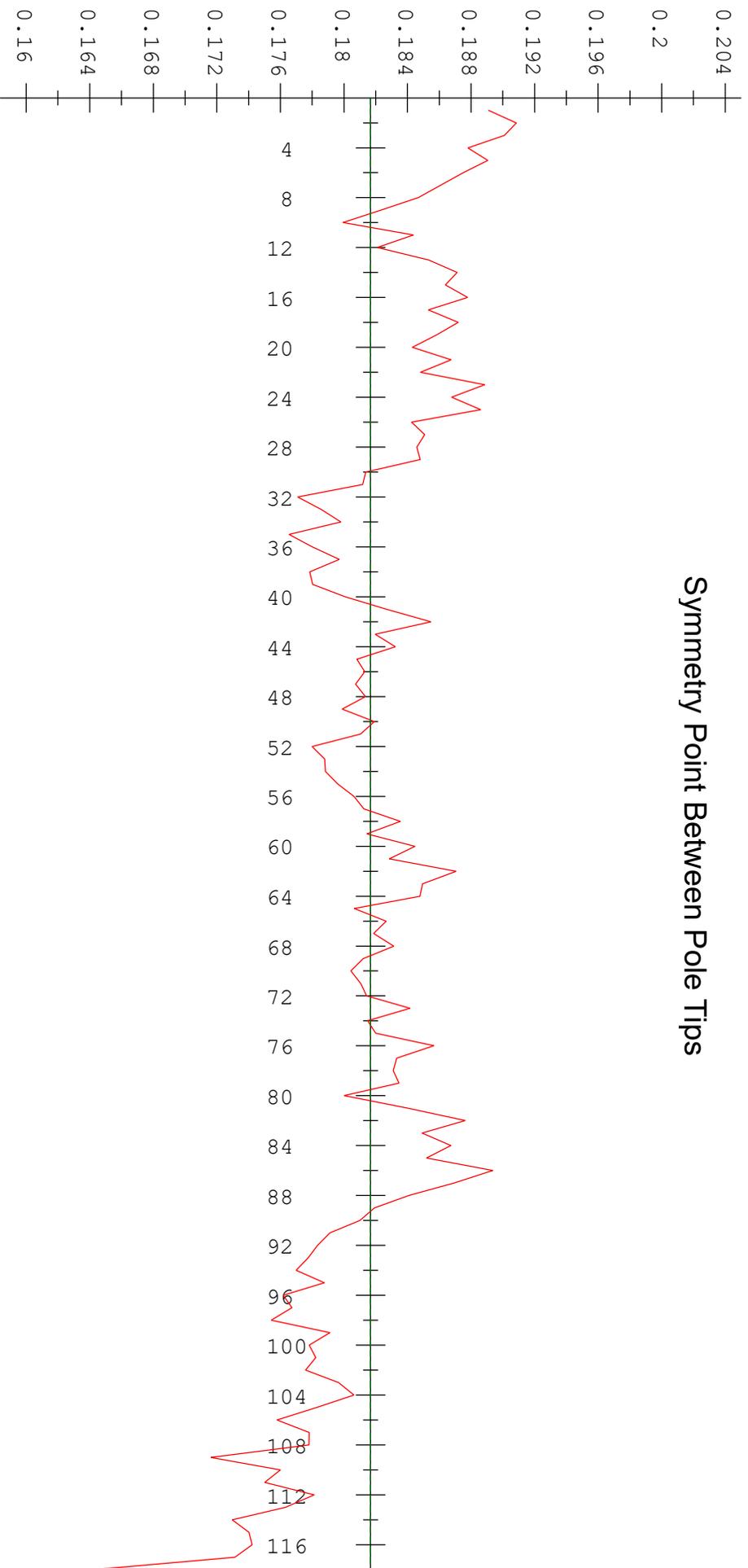
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Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.1817

Step Between Measured Pole Tips = 1

Dimensions in mm



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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>
Top	5.1941	5.1942	5.1946	5.1948
Bottom	-4.8211	-4.8257	-4.8363	-4.8410
Gap	10.0152			10.0358
Taper				0.0206

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1944	-4.8311	10.0255	0.1817

Additional Calculated Values

Bottom Pole #1 Z Value	978.739
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	-0.006
Minimum Effective Gap	9.987
Reference Block Gap	6.794

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