Top Jaw Pole Tips

Mean TOP =   5.0528   Regression Line Ang. (mrad) =   0.0065

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   10.00

Mean BTM =   -5.0212   Regression Line Ang. (mrad) =   0.0230

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

Regression Line Through Points =
Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
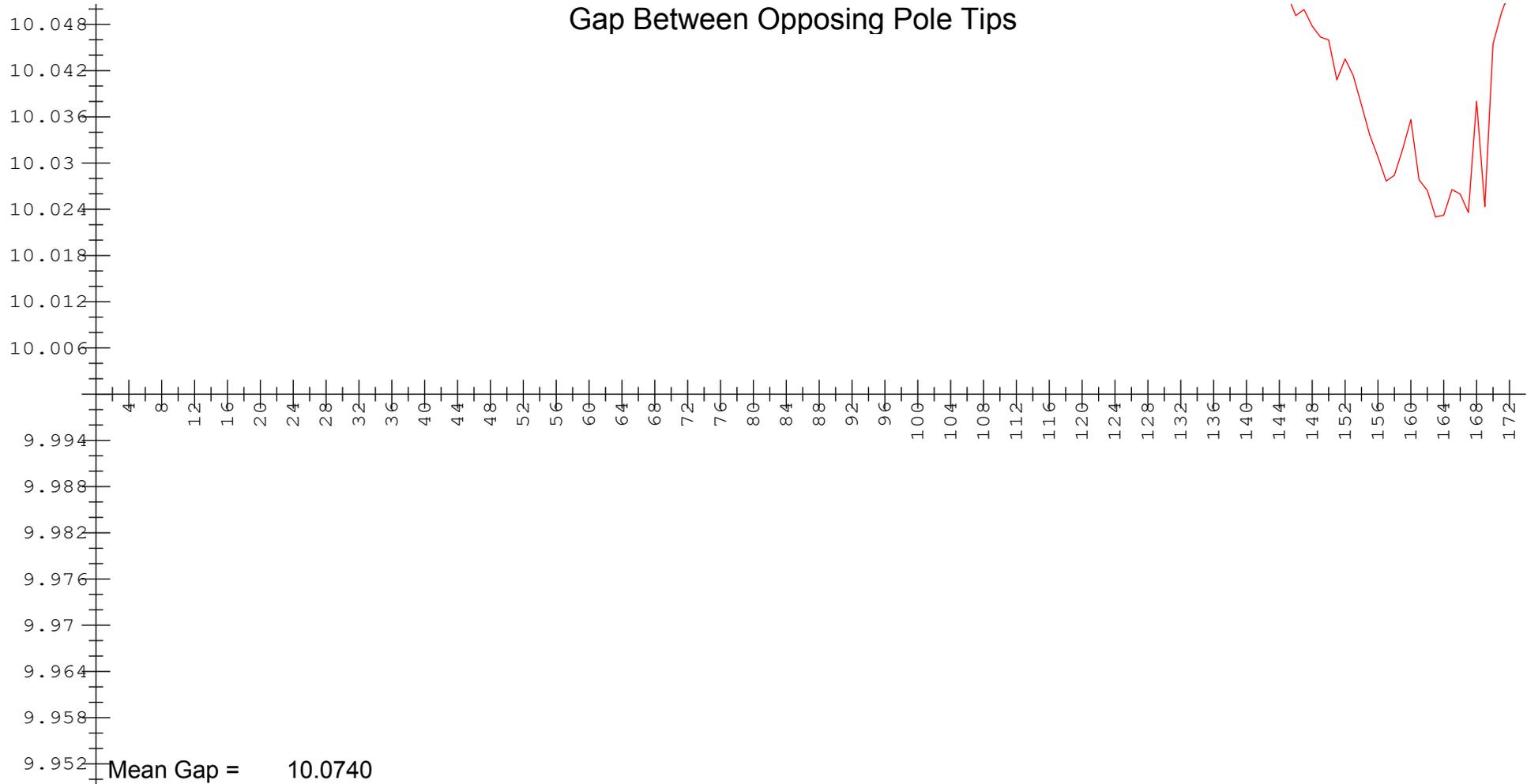METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

04-APR-2019
S/N =   002
D/S=   0001
Run=   1

Gap Between Opposing Pole Tips

Mean Gap =   10.0740

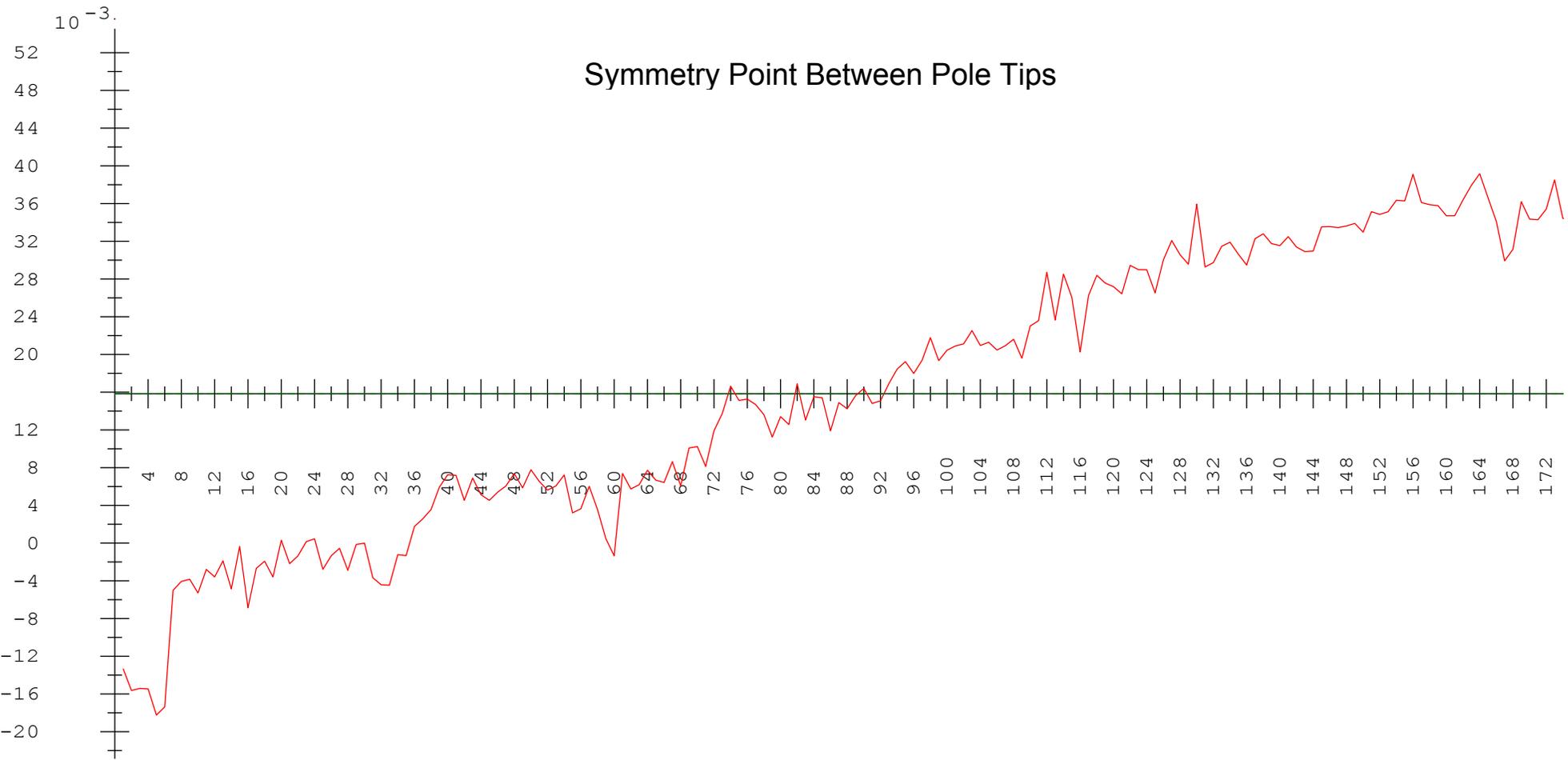Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

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METROLOGY

04-APR-2019
S/N =   002
D/S=   0001
Run=   1

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0158

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

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S/N =   002
D/S=   0001
Run=   1

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Top and Bottom Jaw
Regression Line Intersect Points

Jaw	First Pole (Pole 1)	US Actuator (Pole 39)	DS Actuator (Pole 135)	Last Pole (Pole 174)
Top	5.0419	5.0467	5.0589	5.0638
Bottom	-5.0600	-5.0430	-4.9998	-4.9823
Gap	10.1019			10.0461
Taper				-0.0558

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0528	-5.0212	10.0740	0.0158

Additional Calculated Values

Bottom Pole #1 Z Value	980.303
Top Jaw Pitch (mrad)	0.006
Bottom Jaw Pitch(mrad)	0.023
Minimum Effective Gap	10.000
Reference Block Gap	6.810

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

04-APR-2019
S/N = 002
D/S= 0001
Run= 1