Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP = 10.0585   Regression Line Ang. (mrad) = 0.0019

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 19.985

10^{-3}

Y Dev. from Mean

Mean BTM = -9.9540   Regression Line Ang. (mrad) = 0.0033

Y Value Scales Centered on Mean Values
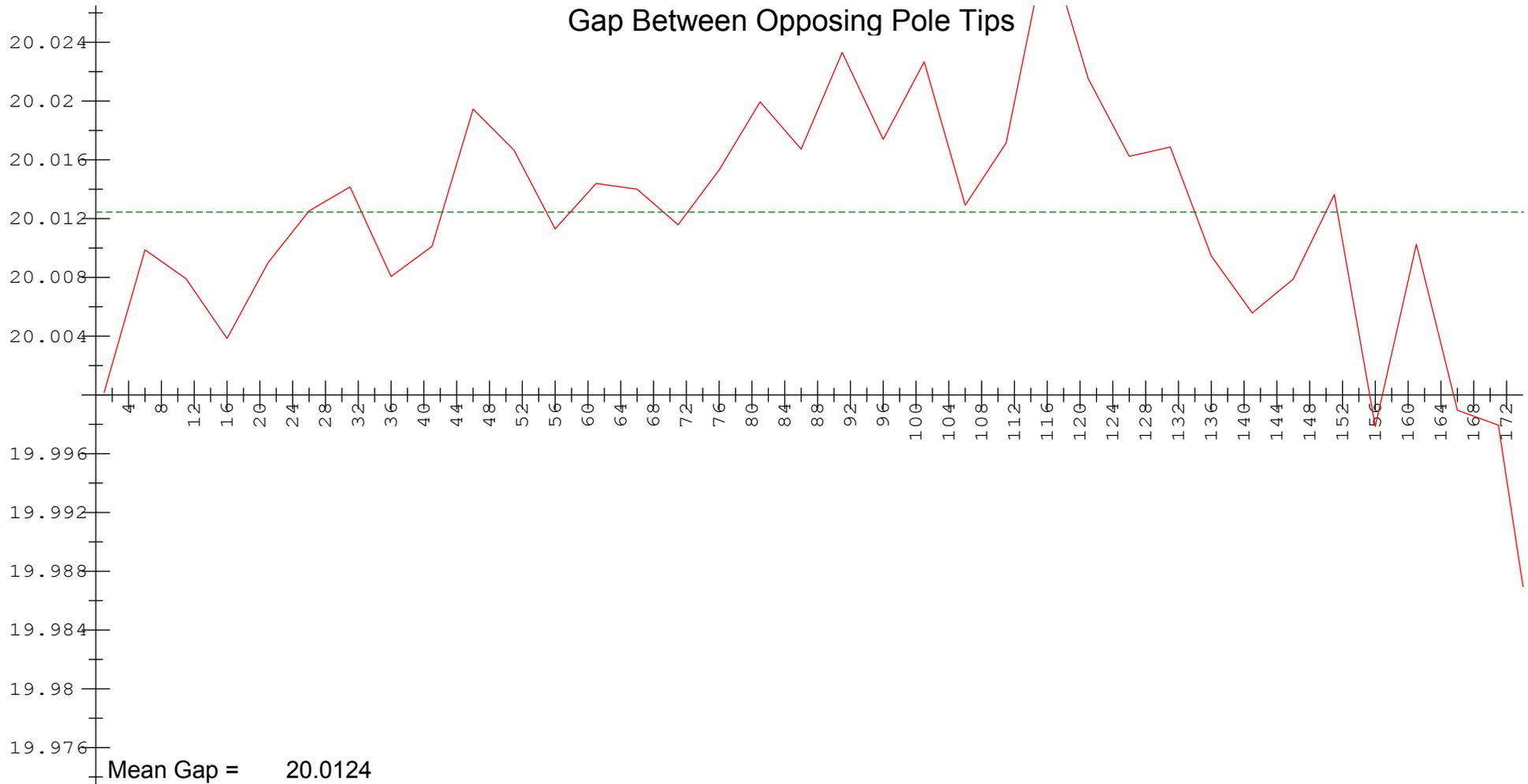Step Between Measured Pole Tips = 5

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

SLAC
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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20   Nominal Taper = 0.000
Gap Reading = 20.0001   US Encoder = 20.0000   DS Encoder = 20.0000

13-NOV-2018
S/N = 017
D/S = 0001
Run = 13

Gap Between Opposing Pole Tips

Mean Gap =   20.0124

Step Between Measured Pole Tips =   5
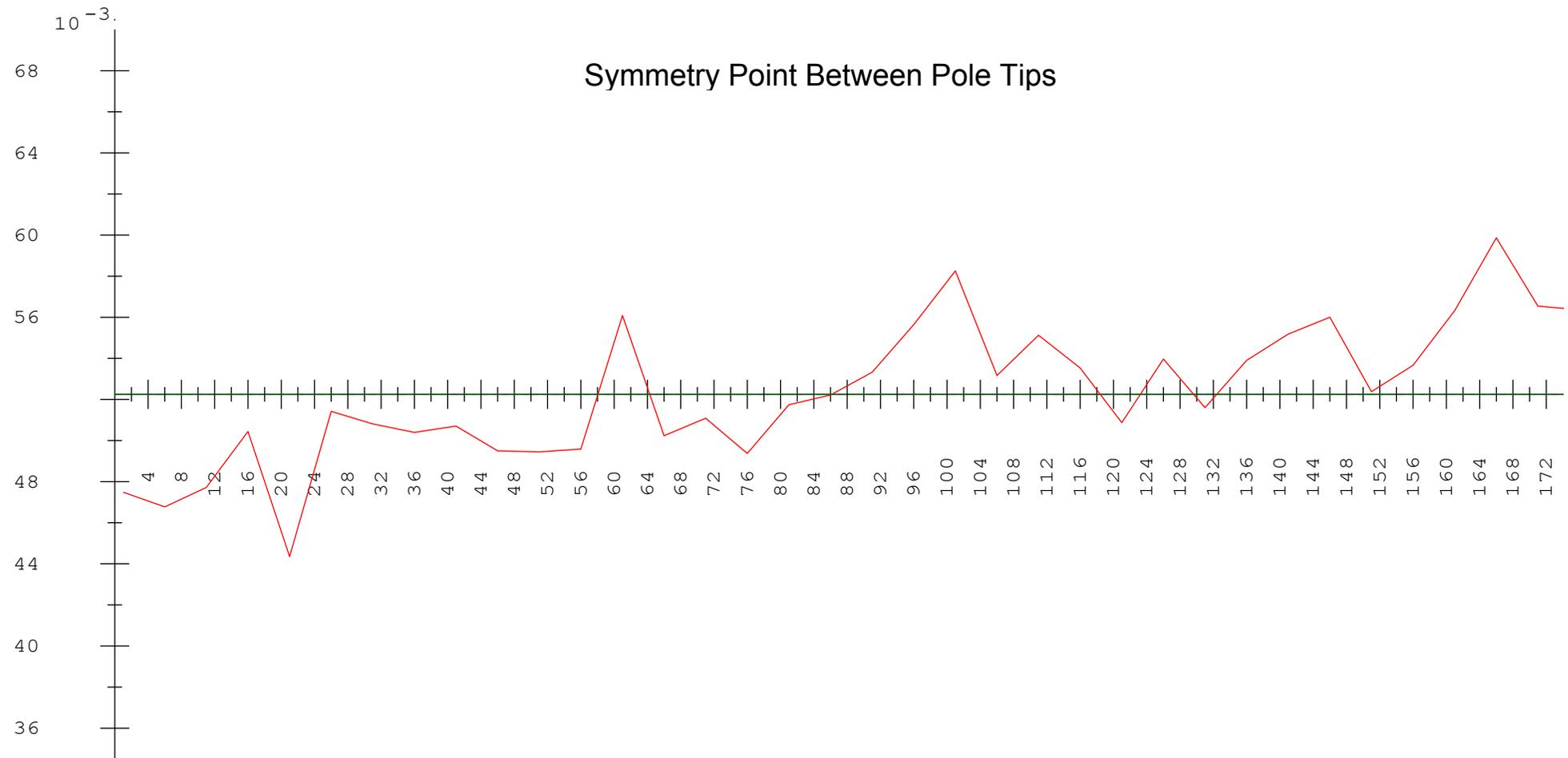
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 20   Nominal Taper = 0.000

Gap Reading = 20.0001   US Encoder = 20.0000   DS Encoder = 20.0000

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METROLOGY

13-NOV-2018
S/N =   017
D/S=   0001
Run=   13

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0522

Step Between Measured Pole Tips =   5

Dimensions in mm

| NATIONAL ACCELERATOR LABORATORY METROLOGY | **LCLS II - SXR Undulator** Nominal Gap = 20   Nominal Taper = 0.000 Gap Reading = 20.0001   US Encoder = 20.0000   DS Encoder = 20.0000 | 13-NOV-2018 S/N =   017 D/S=   0001 Run=   13 |

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	10.0551	10.0564	10.0599	10.0613
Bottom	-9.9591	-9.9567	-9.9505	-9.9480
Gap	20.0142			20.0094
Taper				-0.0048

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
10.0585	-9.9540	20.0124	0.0522

Additional Calculated Values

Bottom Pole #1 Z Value	980.178
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.003
Minimum Effective Gap	19.985
Reference Block Gap	6.806

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20   Nominal Taper = 0.000
Gap Reading = 20.0001   US Encoder = 20.0000   DS Encoder = 20.0000

13-NOV-2018
S/N = 017
D/S= 0001
Run= 13