Top Jaw Pole Tips

Y Dev. from Mean

0.28
0.24
0.2
0.16
0.12
0.08
0.04
−0.04
−0.08
−0.12
−0.16
−0.2
−0.24
−0.28

Mean TOP =   5.6685   Regression Line Ang. (mrad) =   -0.2605

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.138

Y Dev. from Mean

0.28
0.24
0.2
0.16
0.12
0.08
0.04
−0.04
−0.08
−0.12
−0.16
−0.2
−0.24
−0.28

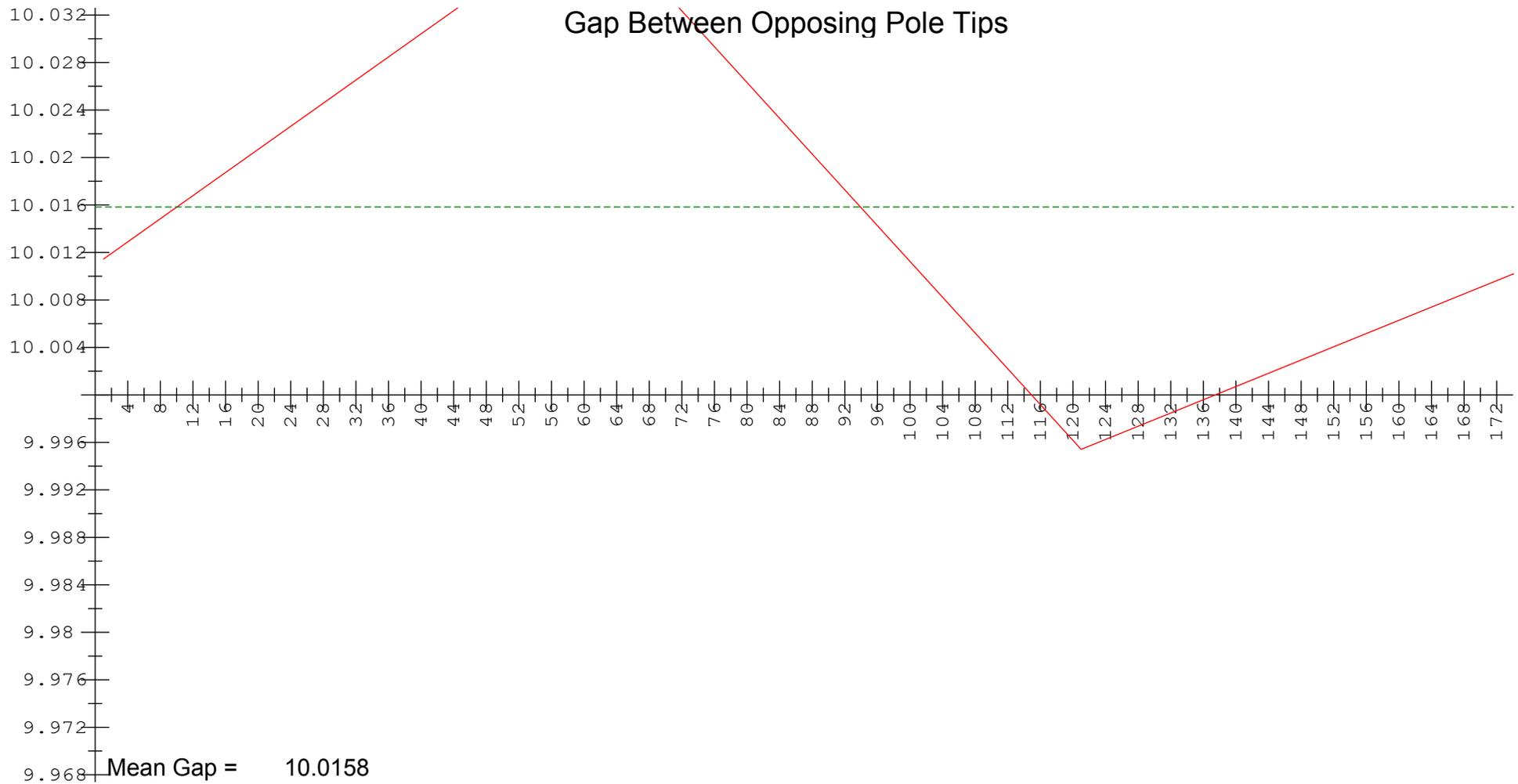Mean BTM =   -4.3474   Regression Line Ang. (mrad) =   -0.2561

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   60

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

Gap Between Opposing Pole Tips

Mean Gap =   10.0158

Step Between Measured Pole Tips =   60

Dimensions in mm

SLAC
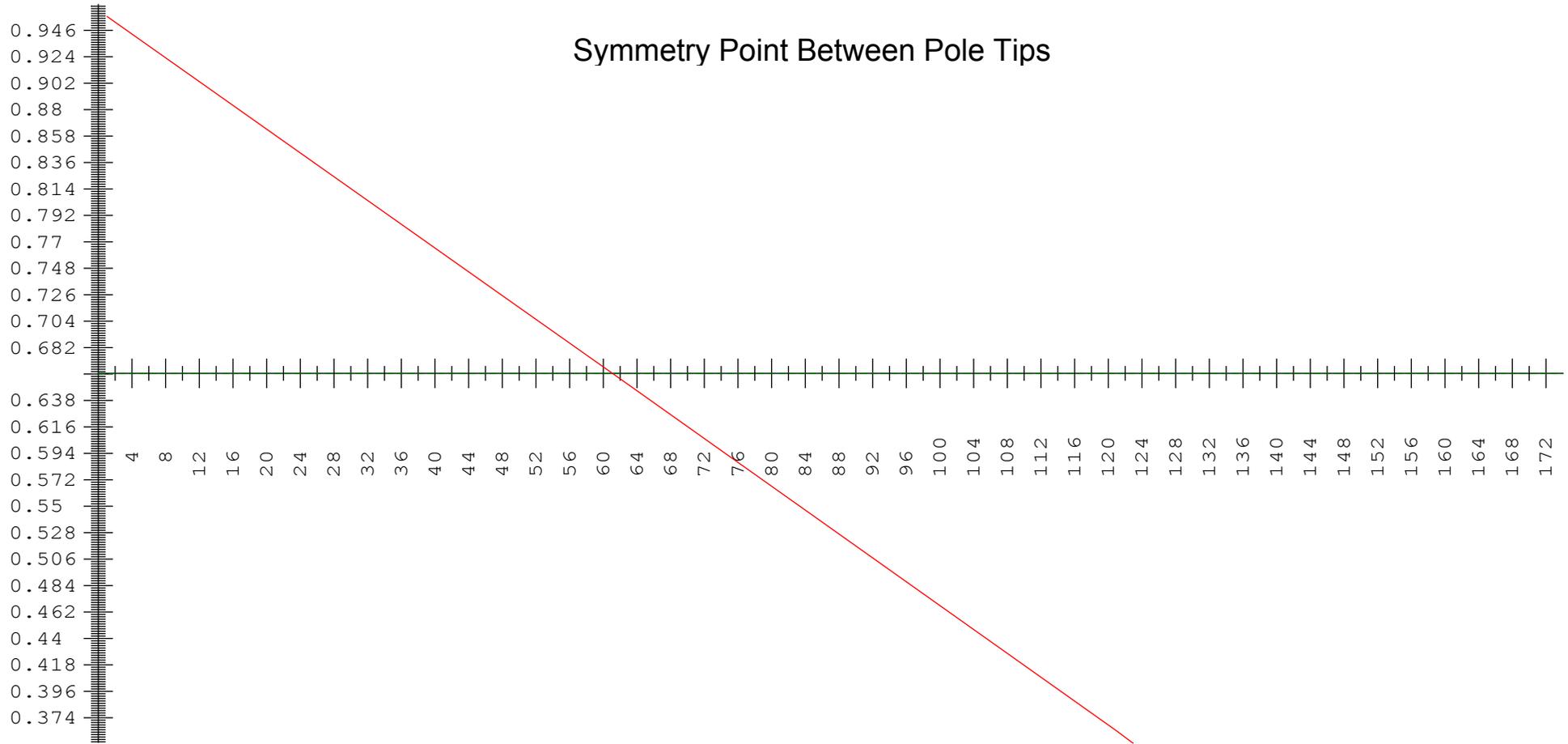NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

01-AUG-2019
S/N =   001
D/S=   0007
Run=   29

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.6606

Step Between Measured Pole Tips =   60

Dimensions in mm

LCLS II - SXR Undulator		01-AUG-2019
Nominal Gap = 10 Nominal Taper = 0.000		S/N = 001
		D/S= 0007
Gap Reading = 0.0000 US Encoder = 0.0000 DS Encoder = 0.0000		Run= 29

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METROLOGY

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	5.9721	5.7790	5.2914	5.0933
Bottom	-4.0499	-4.2397	-4.7191	-4.9139
Gap	10.0220			10.0071
Taper				-0.0148

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.6685	-4.3474	10.0158	0.6606

Additional Calculated Values

Bottom Pole #1 Z Value	980.086
Top Jaw Pitch (mrad)	-0.261
Bottom Jaw Pitch(mrad)	-0.256
Minimum Effective Gap	9.138
Reference Block Gap	6.805

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

01-AUG-2019
S/N = 001
D/S = 0007
Run = 29