Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP = 5.0482   Regression Line Ang. (mrad) = -0.0088

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap = 9.908

Y Dev. from Mean

Mean BTM = -4.9256   Regression Line Ang. (mrad) = 0.0202

Y Value Scales Centered on Mean Values   Regression Line Through Points = ——————
Step Between Measured Pole Tips = 1   Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = -0.100

Gap Reading = 9.9500   US Encoder = 10.0000   DS Encoder = 9.9000

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METROLOGY

16-JAN-2019
S/N = 018
D/S= 0001
Run= 14

Gap Between Opposing Pole Tips

Mean Gap =   9.9738

Step Between Measured Pole Tips =   1

Dimensions in mm

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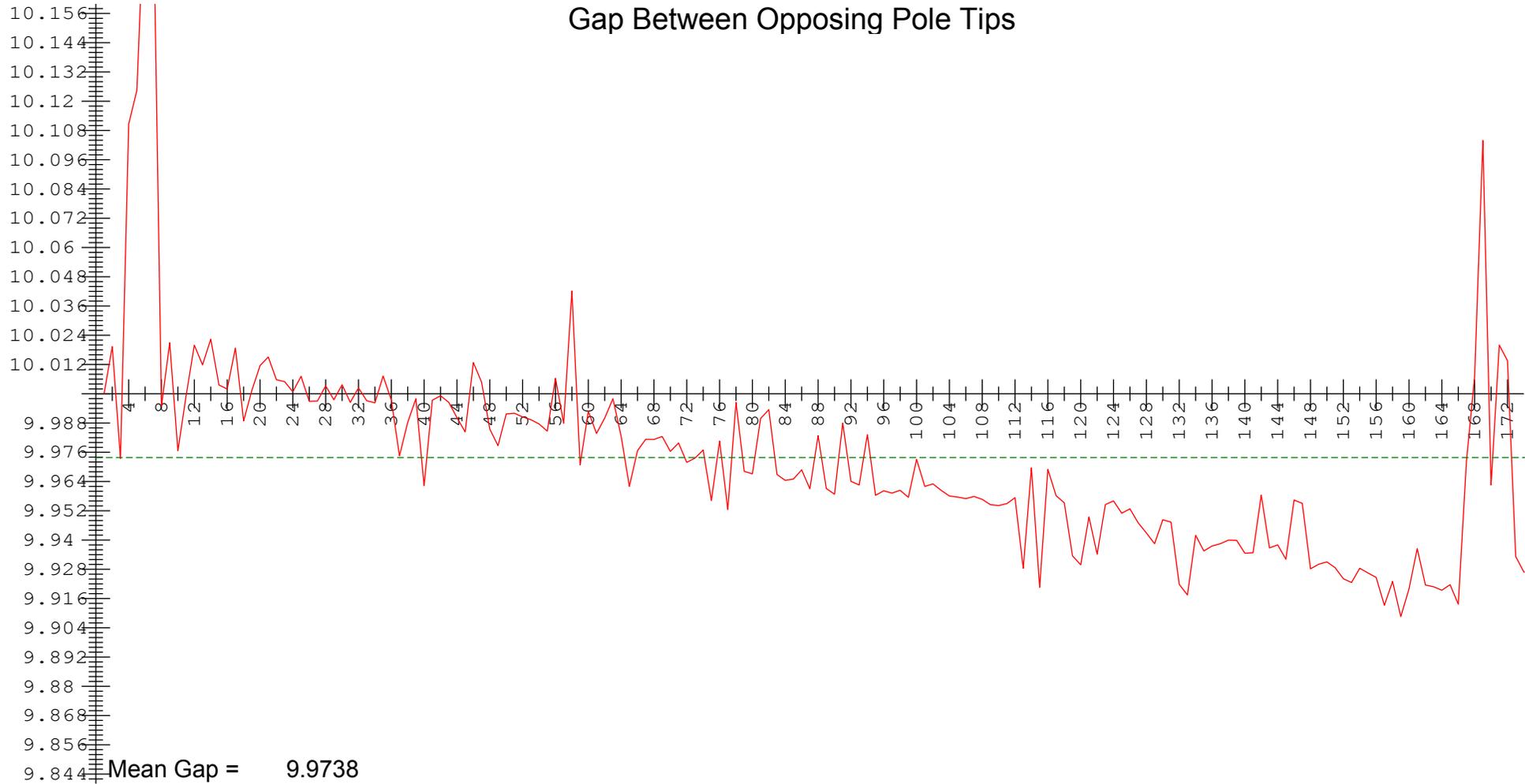METROLOGY

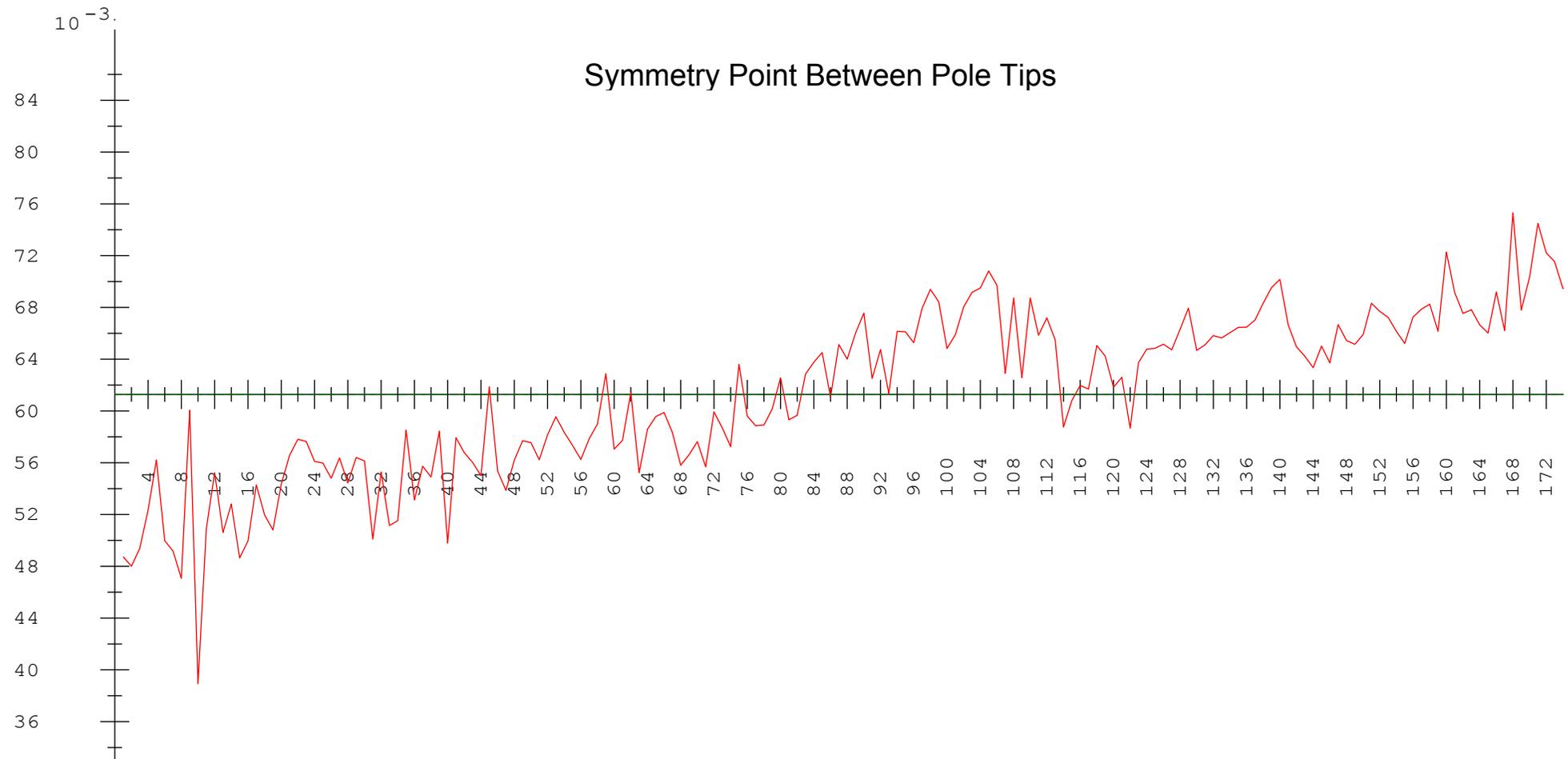**LCLS II - SXR Undulator**
Nominal Gap = 10   Nominal Taper = -0.100
Gap Reading = 9.9500   US Encoder = 10.0000   DS Encoder = 9.9000

16-JAN-2019
S/N =   018
D/S=   0001
Run=   14

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0613

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	**LCLS II - SXR Undulator**	16-JAN-2019
	Nominal Gap = 10 Nominal Taper = -0.100	S/N = 018
	Gap Reading = 9.9500 US Encoder = 10.0000 DS Encoder = 9.9000	D/S= 0001
		Run= 14

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	5.0631	5.0565	5.0400	5.0333
Bottom	-4.9598	-4.9448	-4.9069	-4.8915
Gap	10.0229			9.9248
Taper				-0.0981

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0482	-4.9256	9.9738	0.0613

Additional Calculated Values

Bottom Pole #1 Z Value	980.418
Top Jaw Pitch (mrad)	-0.009
Bottom Jaw Pitch(mrad)	0.020
Minimum Effective Gap	9.908
Reference Block Gap	6.811

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = -0.100
Gap Reading = 9.9500   US Encoder = 10.0000   DS Encoder = 9.9000

16-JAN-2019
S/N = 018
D/S= 0001
Run= 14