Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.0976   Regression Line Ang. (mrad) =   0.0092

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.963

Y Dev. from Mean

Mean BTM =   -4.9623   Regression Line Ang. (mrad) =   -0.0194

Y Value Scales Centered on Mean Values   Regression Line Through Points =⎯⎯⎯⎯
Step Between Measured Pole Tips =   1   Dimensions in mm
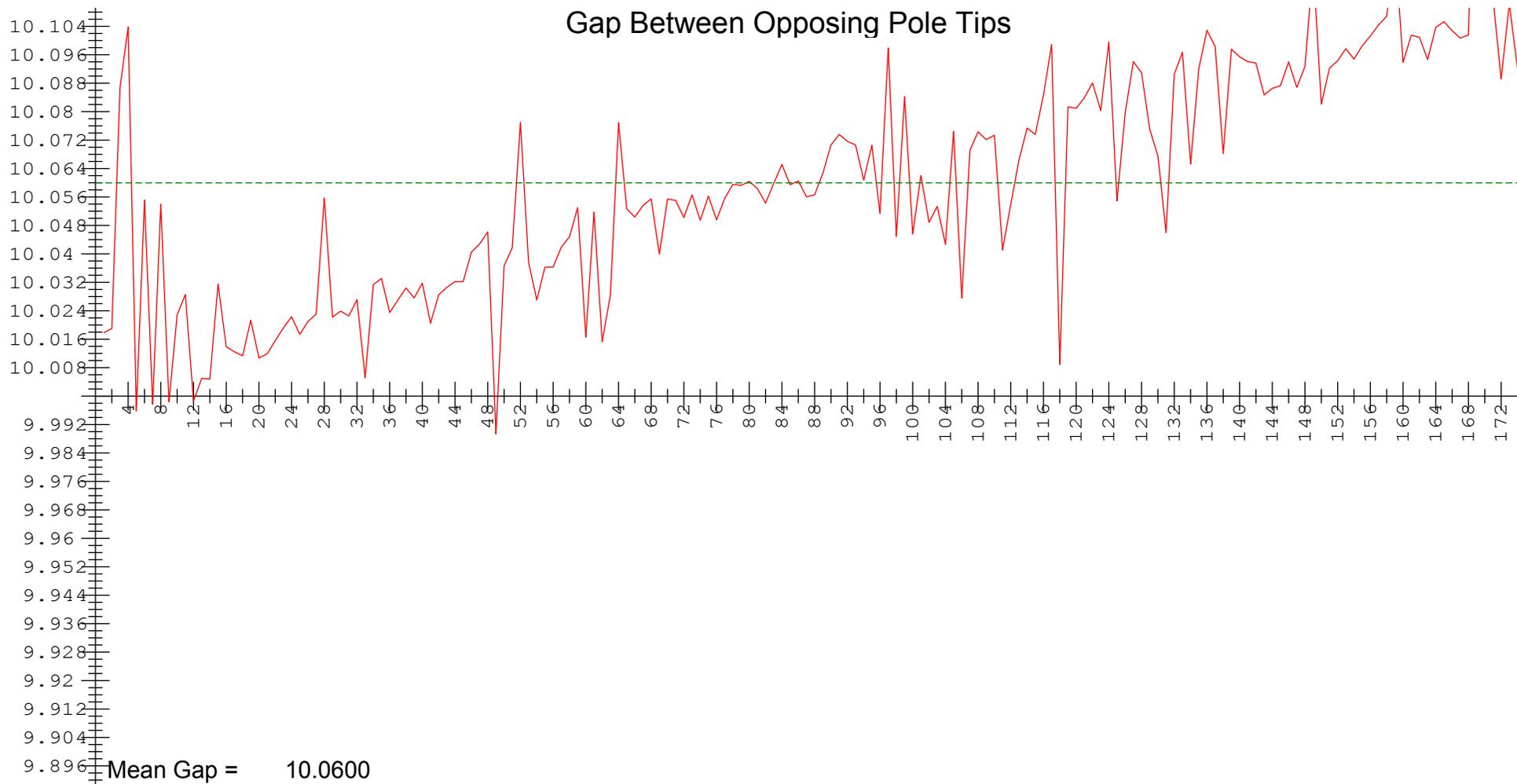
SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

03-JUL-2018
S/N =   012
D/S=   0001
Run=   18

Gap Between Opposing Pole Tips

Mean Gap =   10.0600

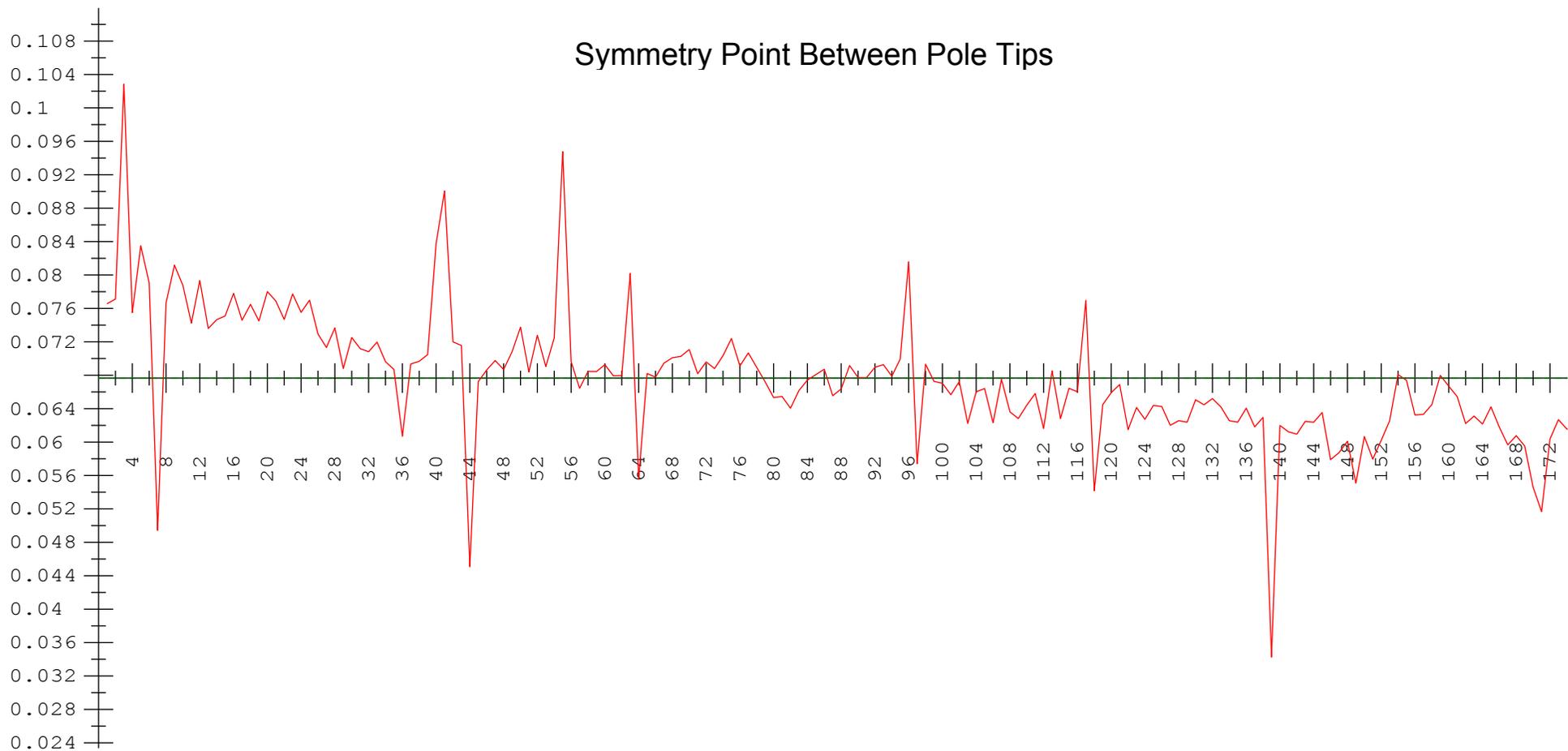Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

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METROLOGY

03-JUL-2018
S/N =   012
D/S=   0001
Run=   18

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0677

Step Between Measured Pole Tips =   1

Dimensions in mm

	LCLS II - SXR Undulator	03-JUL-2018
SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	**Nominal Gap = 10** **Nominal Taper = 0.100** Gap Reading = 10.0500 US Encoder = 10.0000 DS Encoder = 10.1000	S/N = 012 D/S= 0001 Run= 18

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	5.0821	5.0889	5.1062	5.1132
Bottom	-4.9296	-4.9440	-4.9803	-4.9950
Gap	10.0117			10.1082
Taper				0.0965

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0976	-4.9623	10.0600	0.0677

Additional Calculated Values

Bottom Pole #1 Z Value	979.816
Top Jaw Pitch (mrad)	0.009
Bottom Jaw Pitch(mrad)	-0.019
Minimum Effective Gap	9.963
Reference Block Gap	6.810

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

03-JUL-2018
S/N = 012
D/S= 0001
Run= 18