Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.0769   Regression Line Ang. (mrad) =   0.0123

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.973

Y Dev. from Mean

Mean BTM =   -4.9997   Regression Line Ang. (mrad) =   -0.0168

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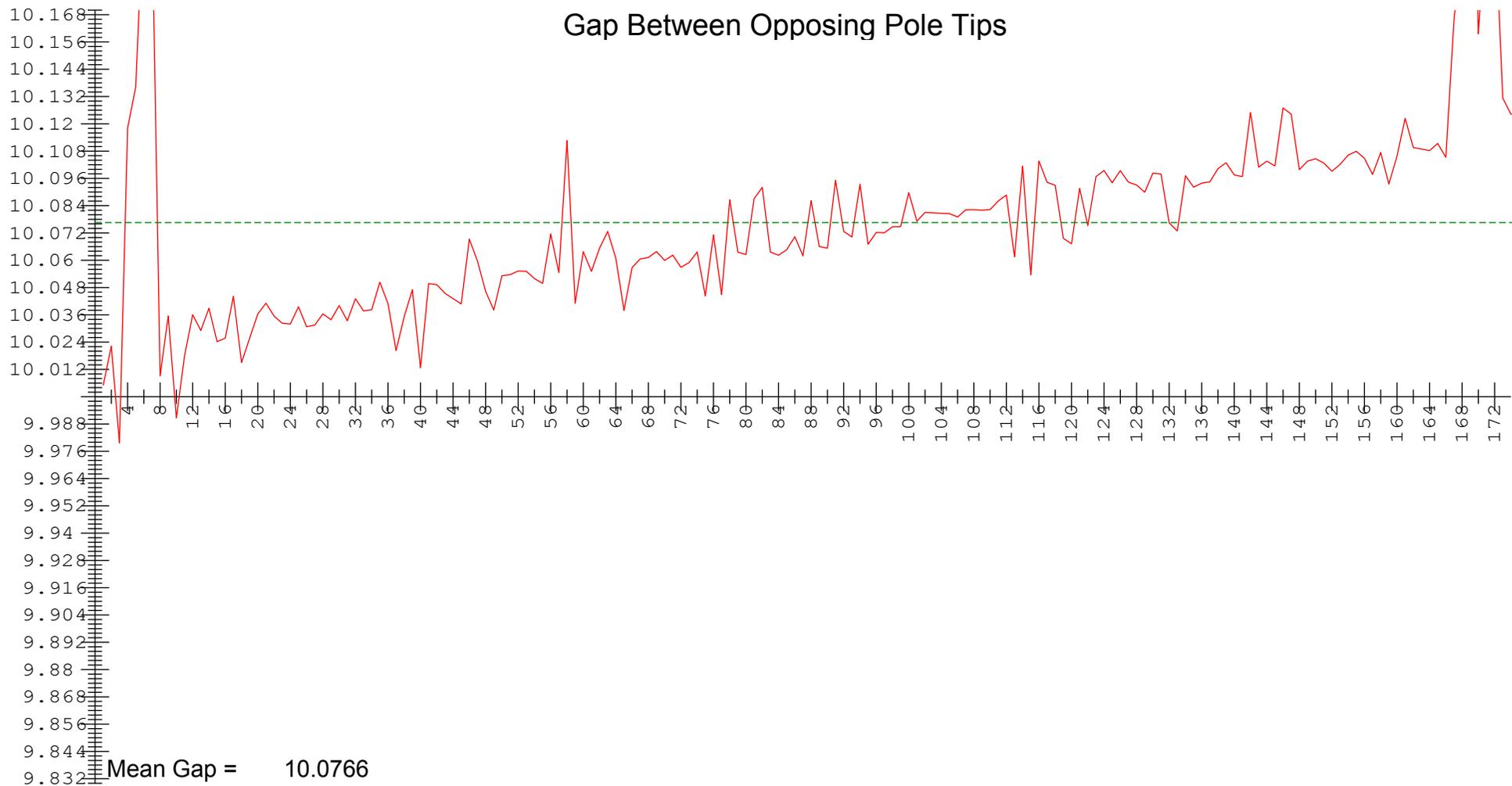
SLAC
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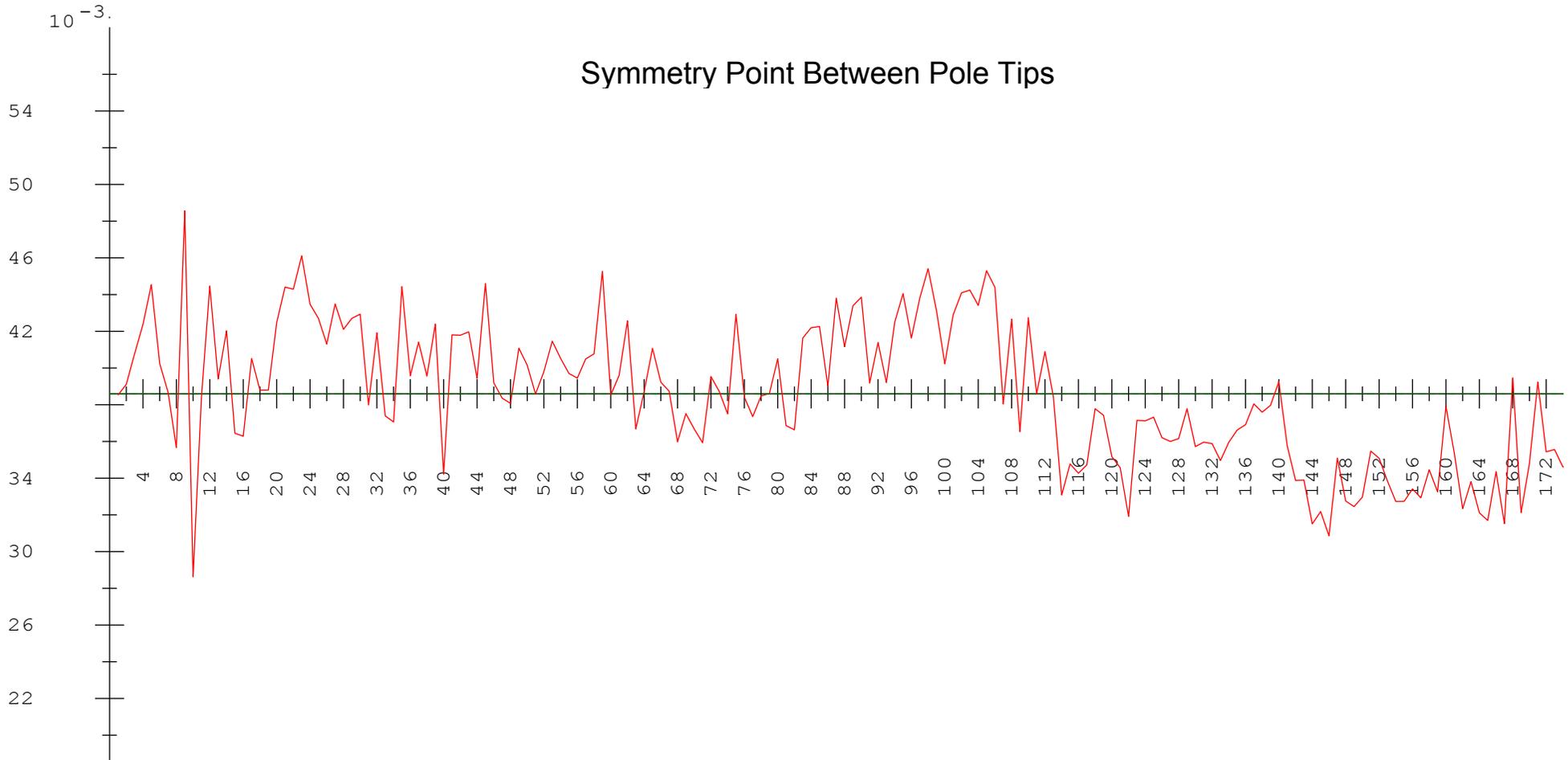METROLOGY

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

16-JAN-2019
S/N =   018
D/S=   0001
Run=   15

Gap Between Opposing Pole Tips

Mean Gap =   10.0766

Step Between Measured Pole Tips =   1

Dimensions in mm

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0386

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 = 10.0500 US Encoder = 10.0000 DS Encoder = 10.1000	D/S= 0001 Run= 15

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	5.0561	5.0652	5.0883	5.0977
Bottom	-4.9714	-4.9838	-5.0152	-5.0280
Gap	10.0275			10.1257
Taper				0.0982

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0769	-4.9997	10.0766	0.0386

Additional Calculated Values

Bottom Pole #1 Z Value	980.418
Top Jaw Pitch (mrad)	0.012
Bottom Jaw Pitch(mrad)	-0.017
Minimum Effective Gap	9.973
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 = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

16-JAN-2019
S/N = 018
D/S= 0001
Run= 15