Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP = 5.1303   Regression Line Ang. (mrad) = 0.0022

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.947

Y Dev. from Mean

Mean BTM = -4.8704   Regression Line Ang. (mrad) = 0.0029

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

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

SLAC
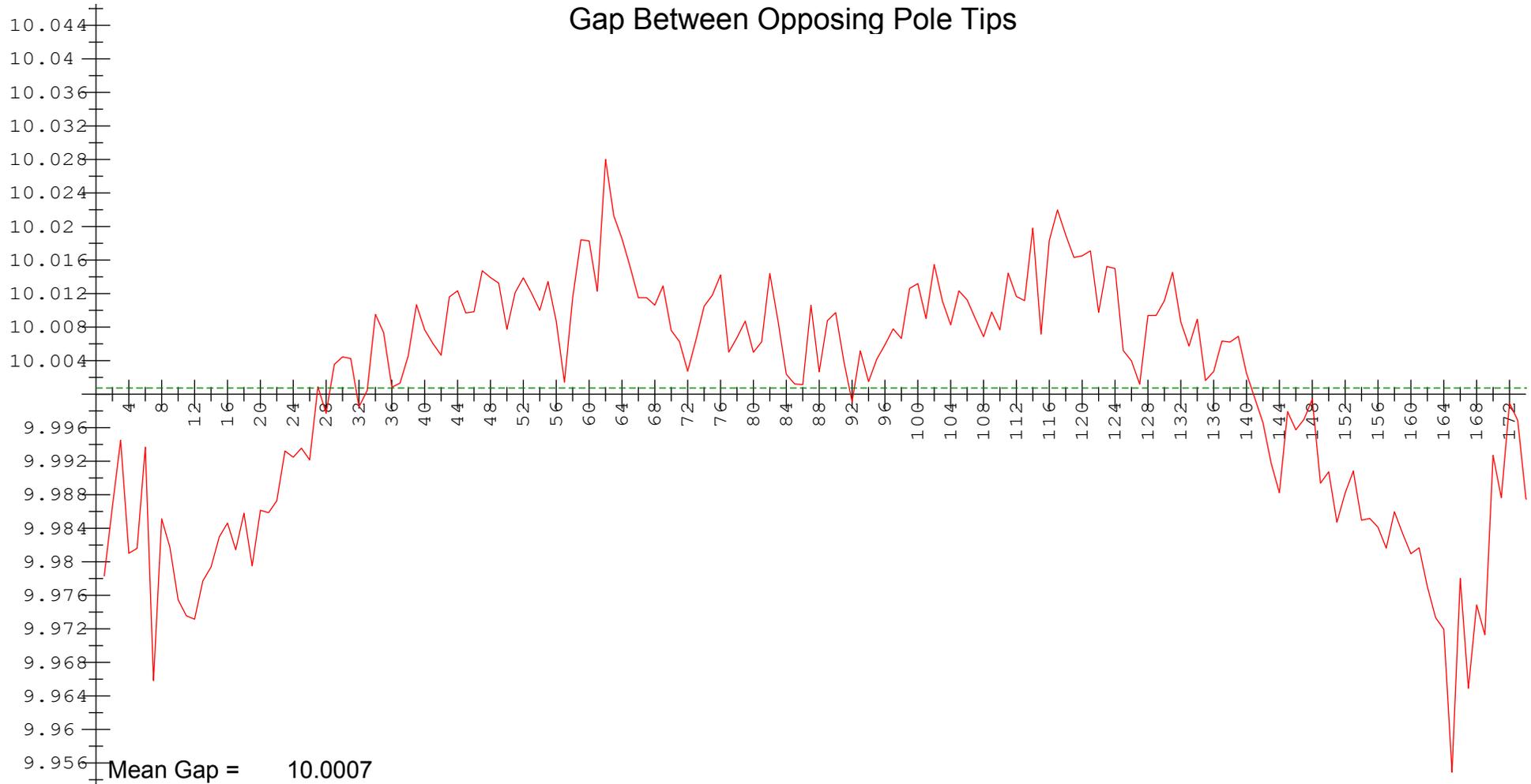NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

02-OCT-2018
S/N = 015
D/S= 0001
Run= 5

Gap Between Opposing Pole Tips

Mean Gap =   10.0007

Step Between Measured Pole Tips =   1
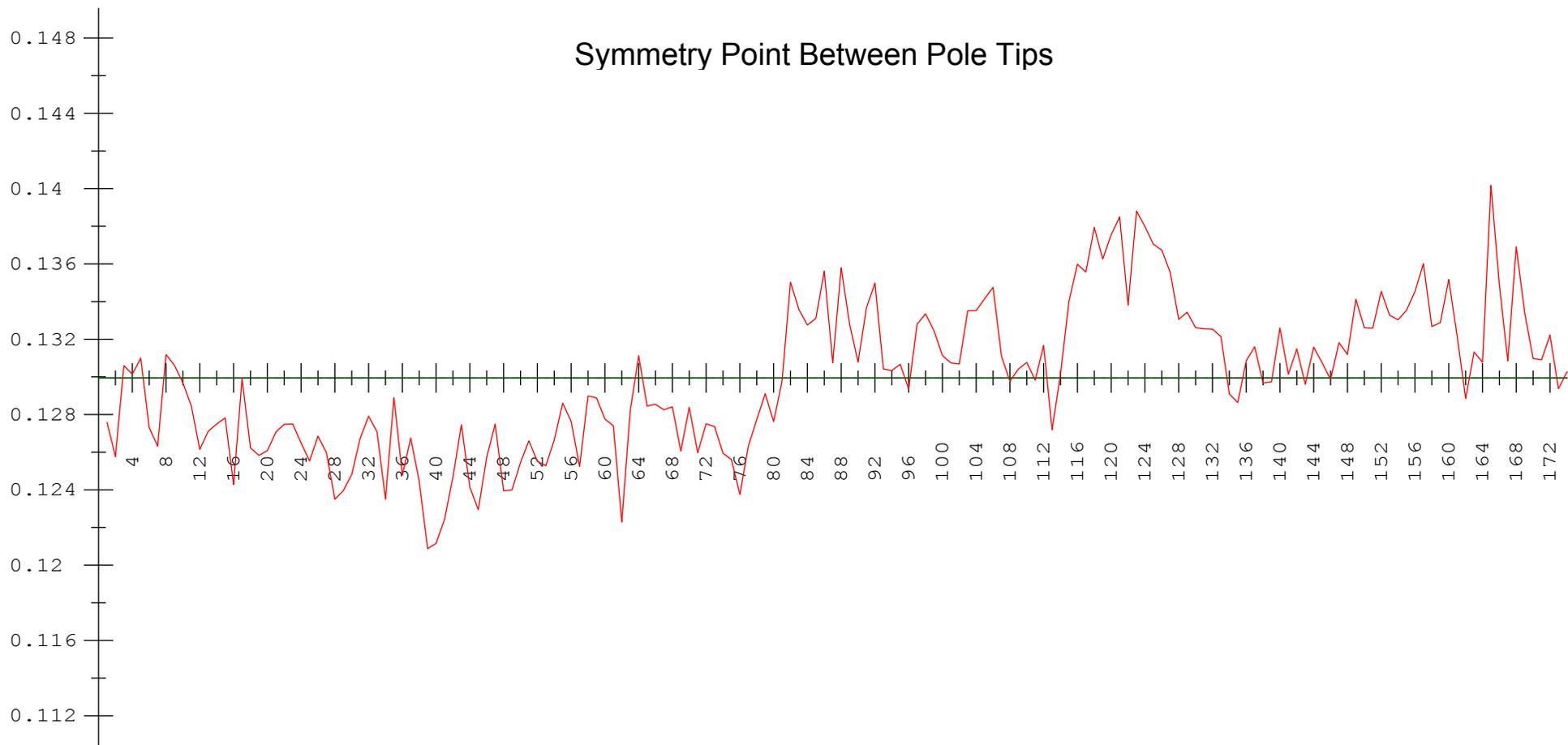
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

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METROLOGY

02-OCT-2018
S/N =   015
D/S=   0001
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1299

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	**LCLS II - SXR Undulator**	02-OCT-2018
	Nominal Gap = 10 Nominal Taper = 0.000	S/N = 015
	Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000	D/S= 0001
		Run= 5

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	5.1265	5.1282	5.1324	5.1341
Bottom	-4.8753	-4.8732	-4.8677	-4.8655
Gap	10.0019			9.9996
Taper				-0.0023

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1303	-4.8704	10.0007	0.1299

Additional Calculated Values

Bottom Pole #1 Z Value	980.409
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.003
Minimum Effective Gap	9.947
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

02-OCT-2018
S/N = 015
D/S = 0001
Run = 5