Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 5.0618   Regression Line Ang. (mrad) = -0.0101

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.857

Y Dev.from Mean

Mean BTM = -4.8942   Regression Line Ang. (mrad) = 0.0182

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

Regression Line Through Points = ——————

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = -0.100

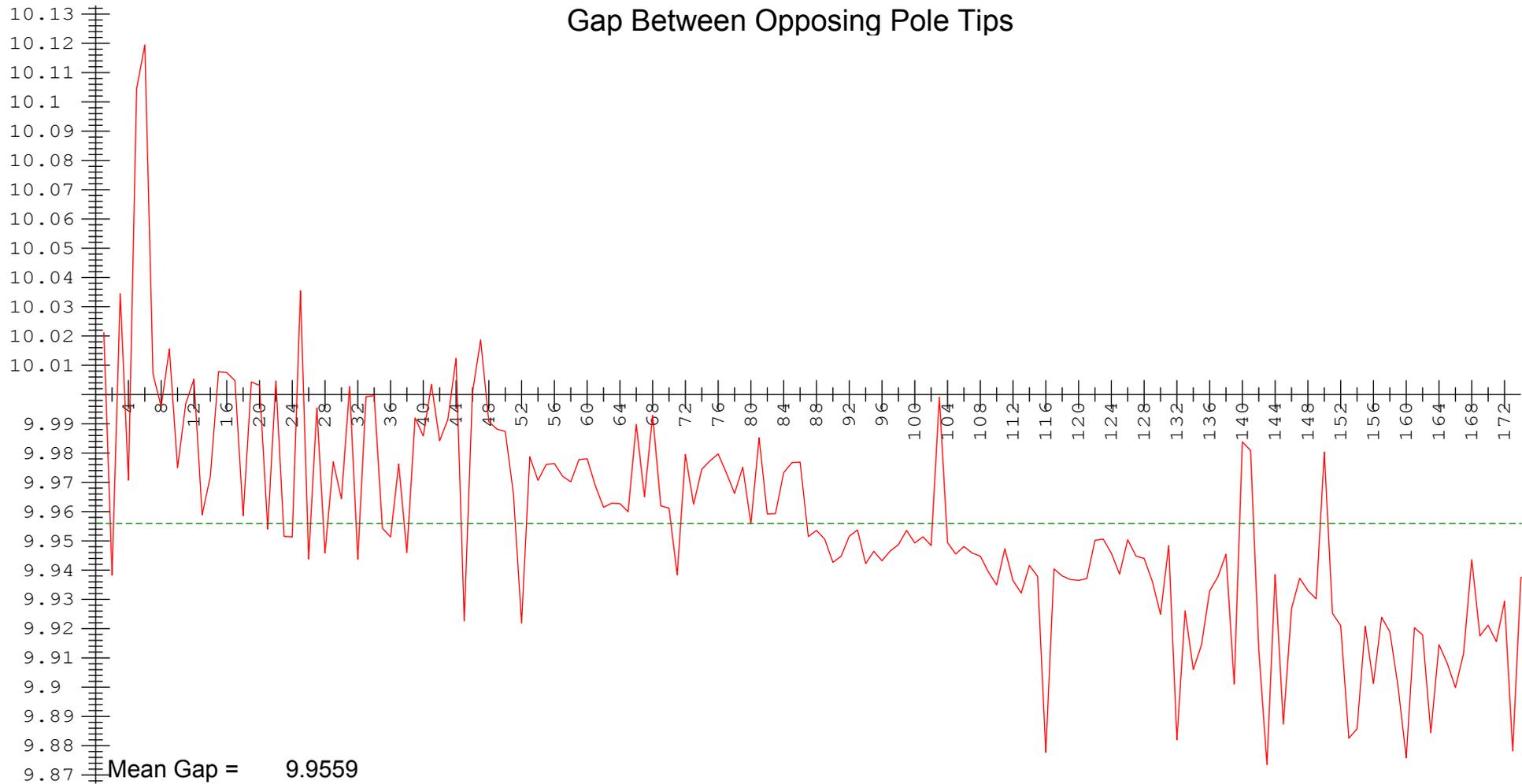Gap Reading = 9.9499   US Encoder = 10.0000   DS Encoder = 9.8999

04-JUN-2018
S/N = 010
D/S = 0001
Run = 15

Gap Between Opposing Pole Tips

Mean Gap =   9.9559
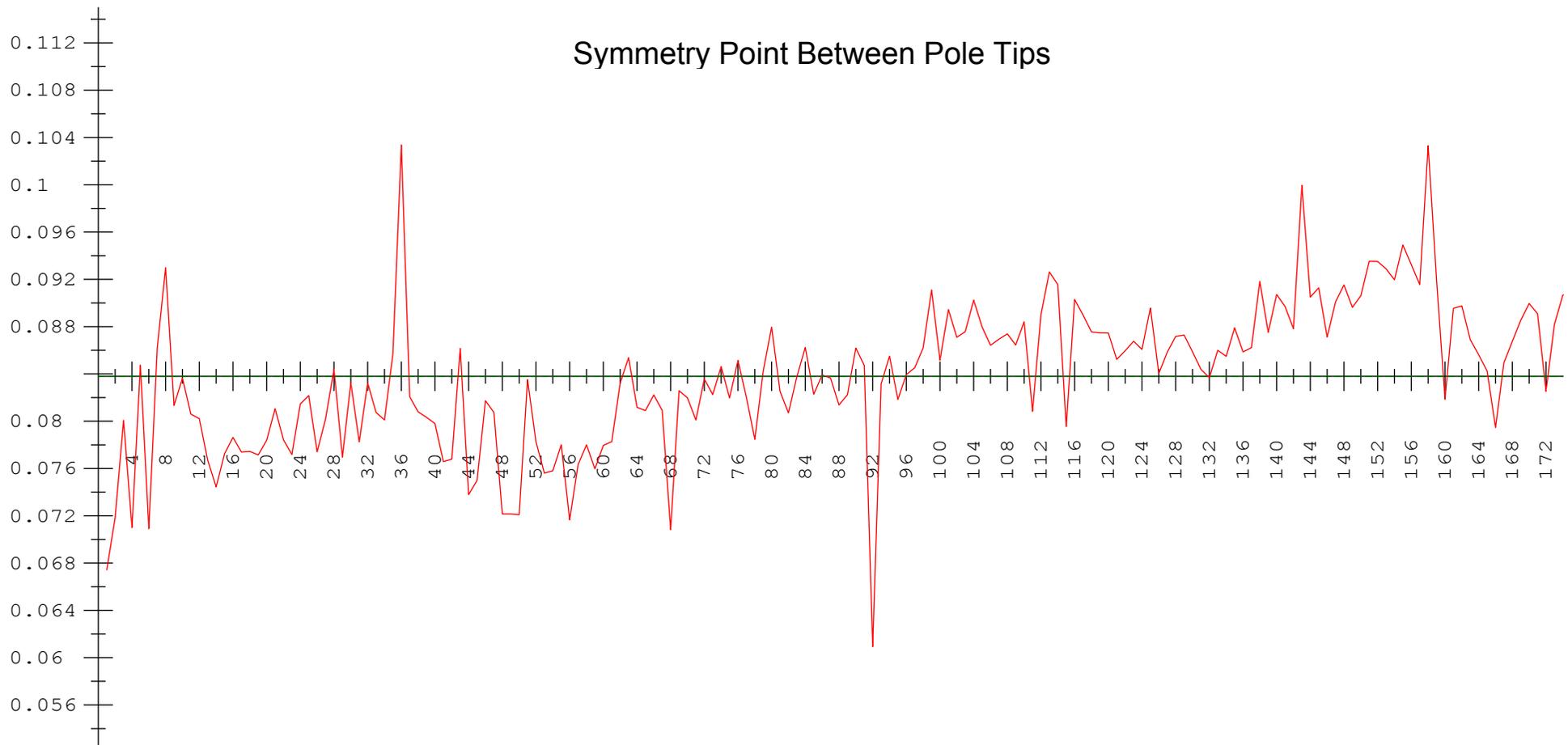
Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = -0.100

Gap Reading = 9.9499   US Encoder = 10.0000   DS Encoder = 9.8999

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04-JUN-2018
S/N =   010
D/S=   0001
Run=   15

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0838

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	**LCLS II - SXR Undulator**	04-JUN-2018
	Nominal Gap = 10 Nominal Taper = -0.100	S/N = 010
	Gap Reading = 9.9499 US Encoder = 10.0000 DS Encoder = 9.8999	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	5.0788	5.0713	5.0524	5.0447
Bottom	-4.9249	-4.9114	-4.8773	-4.8634
Gap	10.0037			9.9081
Taper				-0.0956

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0618	-4.8942	9.9559	0.0838

Additional Calculated Values

Bottom Pole #1 Z Value	979.750
Top Jaw Pitch (mrad)	-0.010
Bottom Jaw Pitch(mrad)	0.018
Minimum Effective Gap	9.857
Reference Block Gap	6.807

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = -0.100
Gap Reading = 9.9499   US Encoder = 10.0000   DS Encoder = 9.8999

04-JUN-2018
S/N = 010
D/S= 0001
Run= 15