Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.1448   Regression Line Ang. (mrad) =   0.0391

Pole Tip Num. ---->

Bottom Jaw Pole Tips   Minimum Effective Gap =   9.946

Y Dev. from Mean

Mean BTM =   -5.0146   Regression Line Ang. (mrad) =   -0.0500

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

SLAC
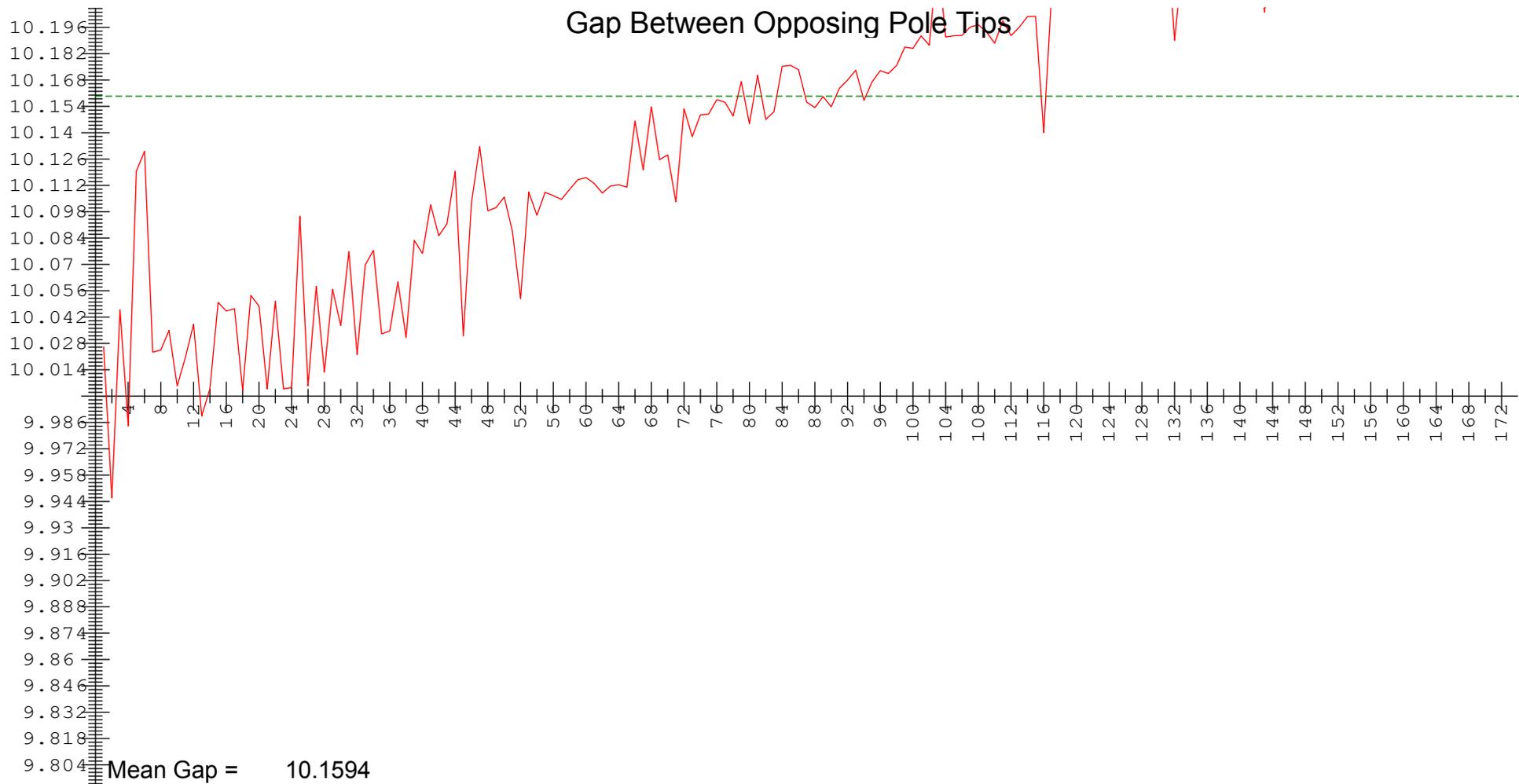NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

04-JUN-2018
S/N =   010
D/S=   0001
Run=   17

Gap Between Opposing Pole Tips

Mean Gap =   10.1594

Step Between Measured Pole Tips =   1
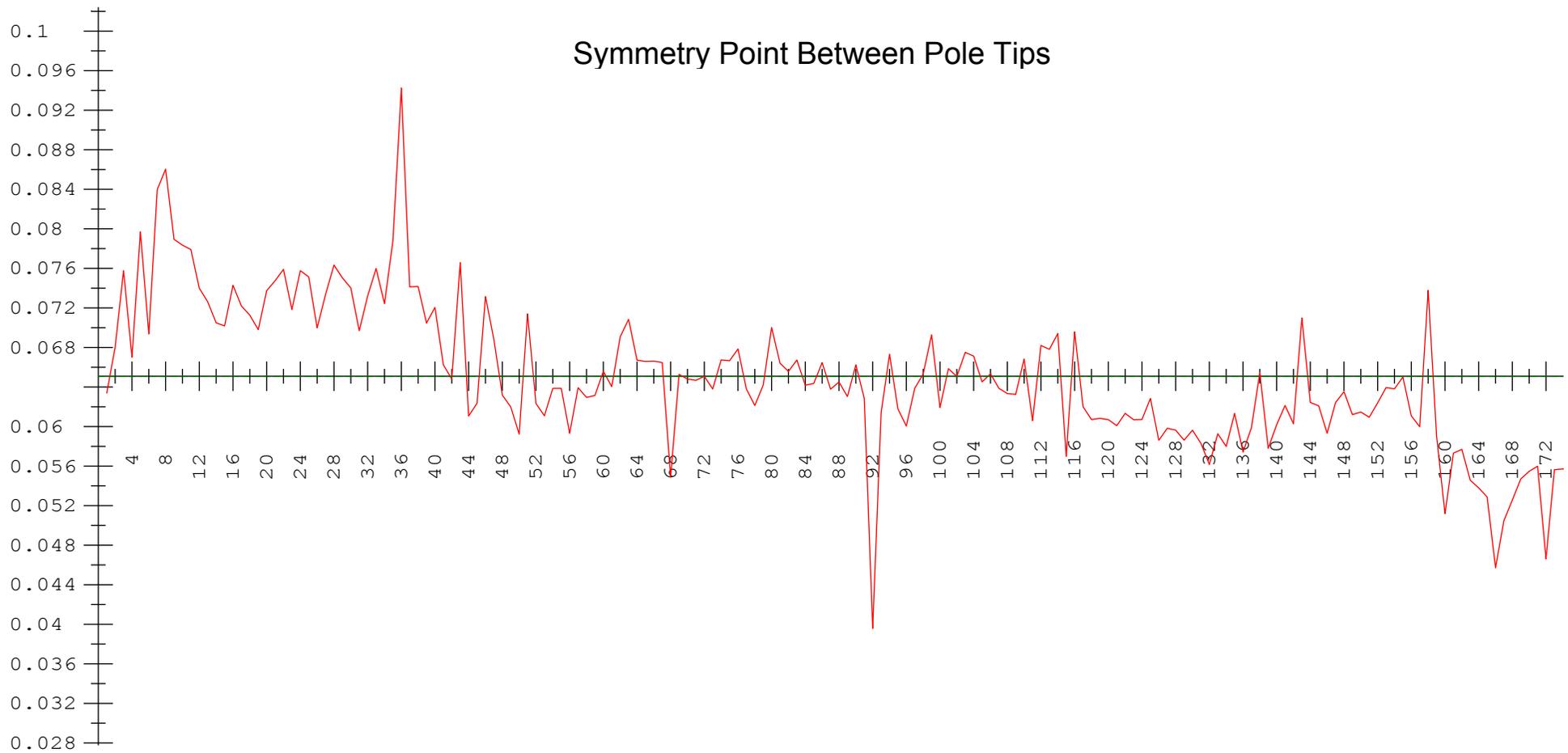
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.300

Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

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04-JUN-2018
S/N =   010
D/S=   0001
Run=   17

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0651

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.300

Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

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S/N =   010
D/S=   0001
Run=   17

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	5.1078	5.1810	5.2108
Bottom	-4.9303	-4.9674	-5.0609	-5.0989
Gap	10.0091			10.3096
Taper				0.3005

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1448	-5.0146	10.1594	0.0651

Additional Calculated Values

Bottom Pole #1 Z Value	979.750
Top Jaw Pitch (mrad)	0.039
Bottom Jaw Pitch(mrad)	-0.050
Minimum Effective Gap	9.946
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1500   US Encoder = 10.0000   DS Encoder = 10.3000

04-JUN-2018
S/N = 010
D/S= 0001
Run= 17