Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   5.0492   Regression Line Ang. (mrad) =   -0.0026

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.913

Y Dev.from Mean

Mean BTM =   -4.9194   Regression Line Ang. (mrad) =   -0.0109

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

SLAC
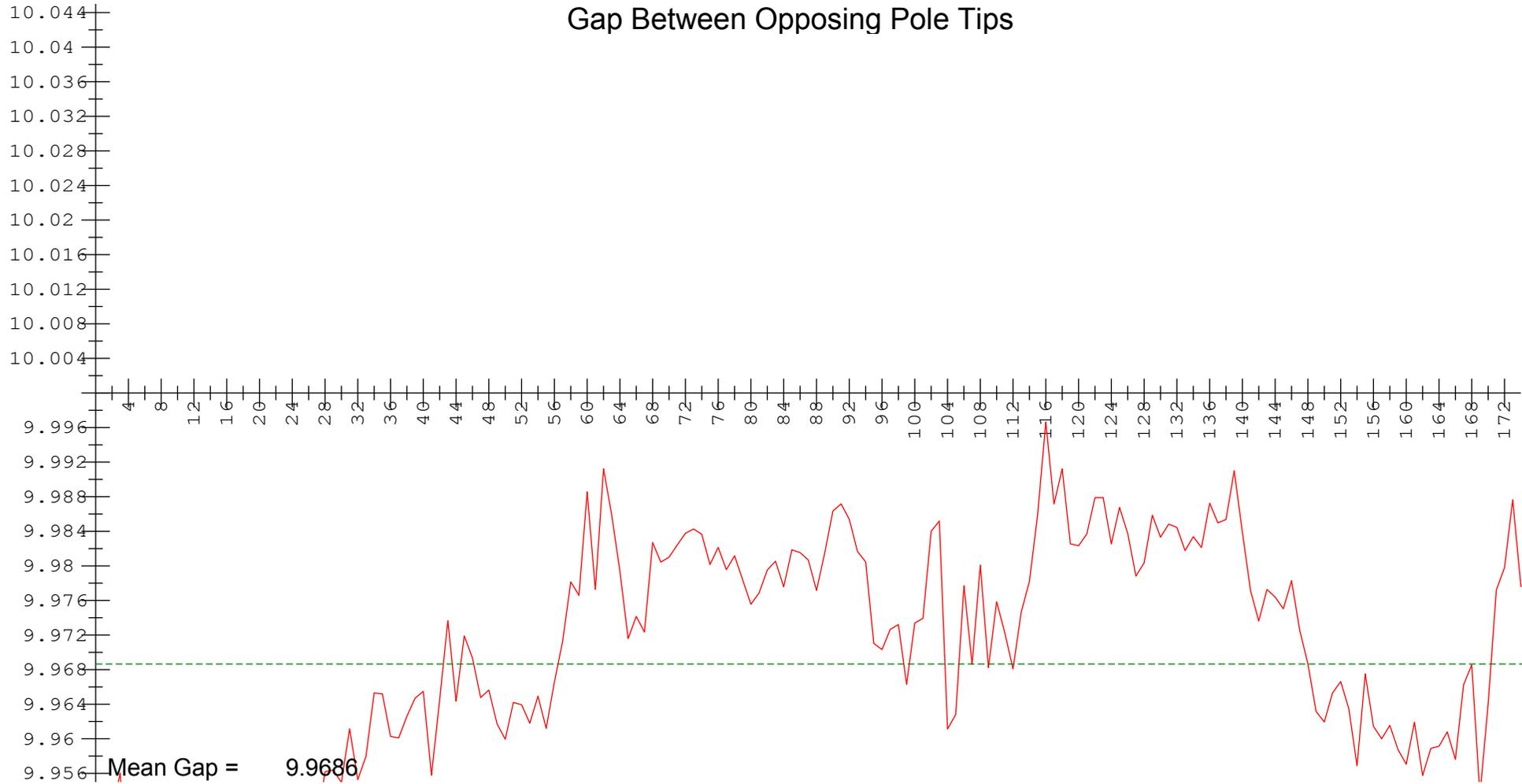NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 9.9999

23-OCT-2018
S/N =   016
D/S=   0001
Run=   1

Gap Between Opposing Pole Tips

Mean Gap =   9.9686

Step Between Measured Pole Tips =   1
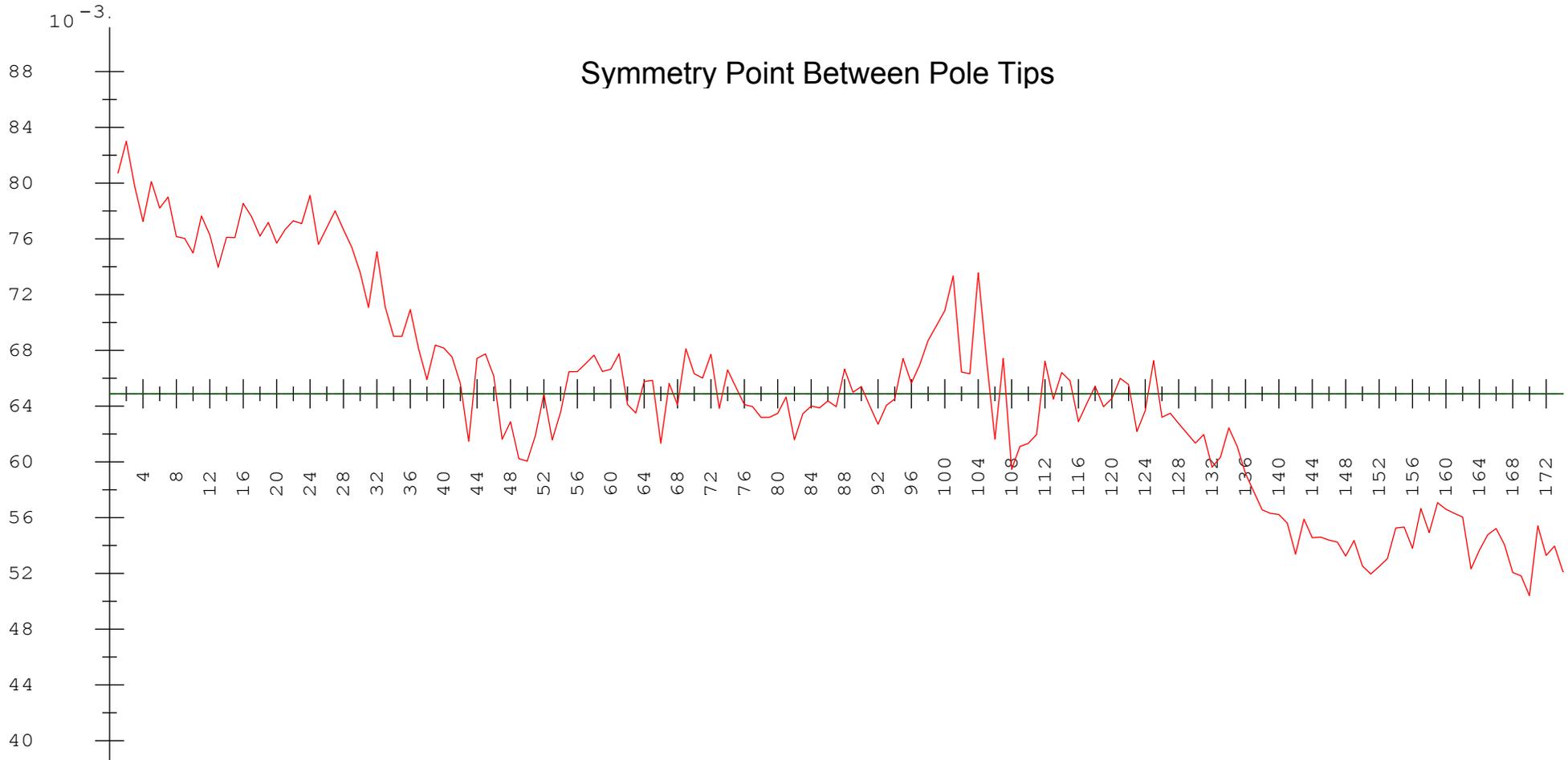
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 9.9999

23-OCT-2018
S/N =   016
D/S=   0001
Run=   1

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0649

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 = 9.9999

23-OCT-2018
S/N =   016
D/S=   0001
Run=   1

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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	5.0536	5.0517	5.0468	5.0448
Bottom	-4.9010	-4.9091	-4.9296	-4.9379
Gap	9.9546			9.9827
Taper				0.0280

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0492	-4.9194	9.9686	0.0649

Additional Calculated Values

Bottom Pole #1 Z Value	979.935
Top Jaw Pitch (mrad)	-0.003
Bottom Jaw Pitch(mrad)	-0.011
Minimum Effective Gap	9.913
Reference Block Gap	6.809

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 = 9.9999

23-OCT-2018
S/N = 016
D/S= 0001
Run= 1