Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP = 5.0682   Regression Line Ang. (mrad) = -0.0022

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.987

10^{-3}

Y Dev. from Mean

Mean BTM = -4.9749   Regression Line Ang. (mrad) = -0.0047

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 1

Regression Line Through Points = ----

Dimensions in mm

LCLS II - SXR Undulator
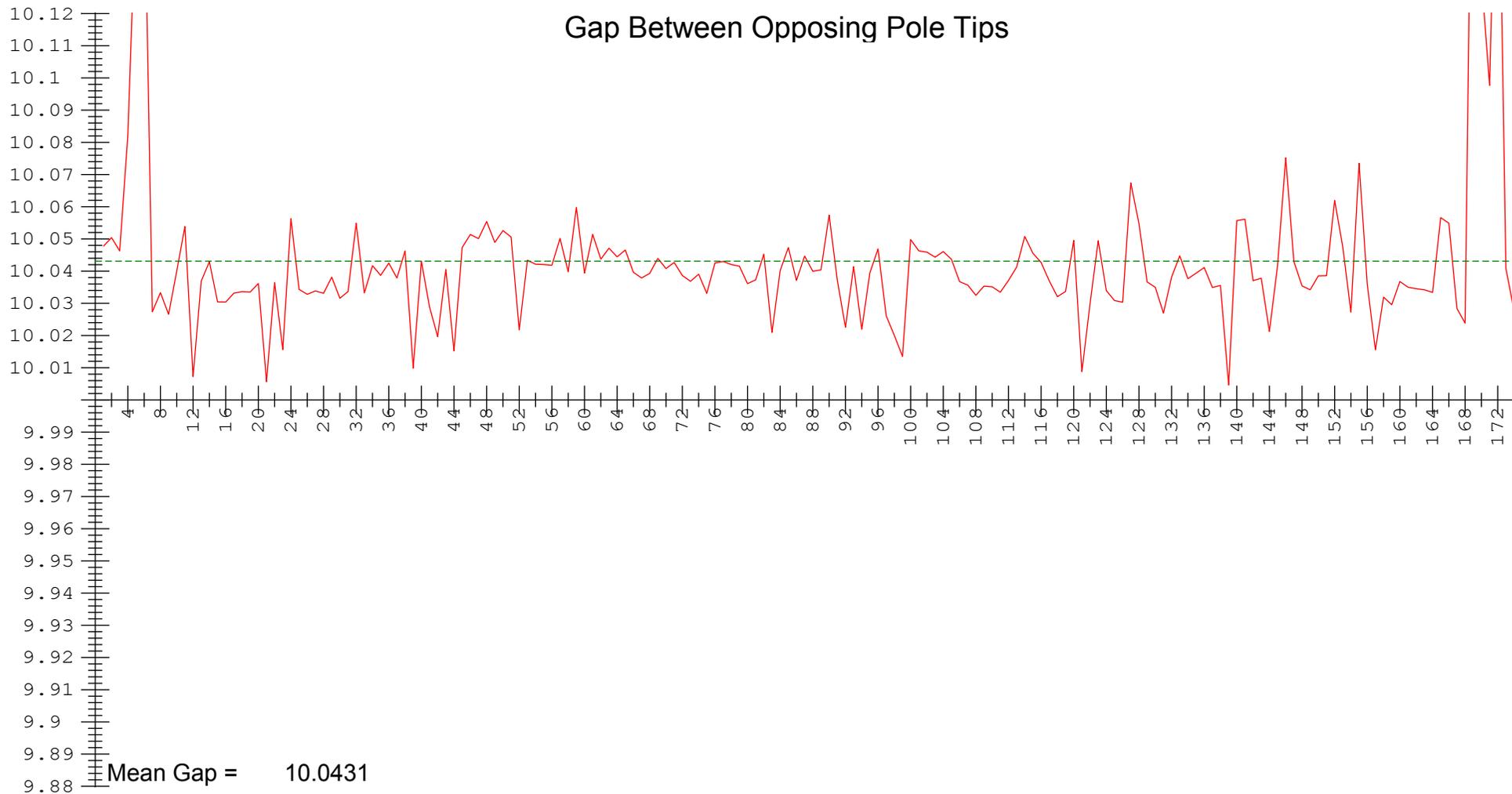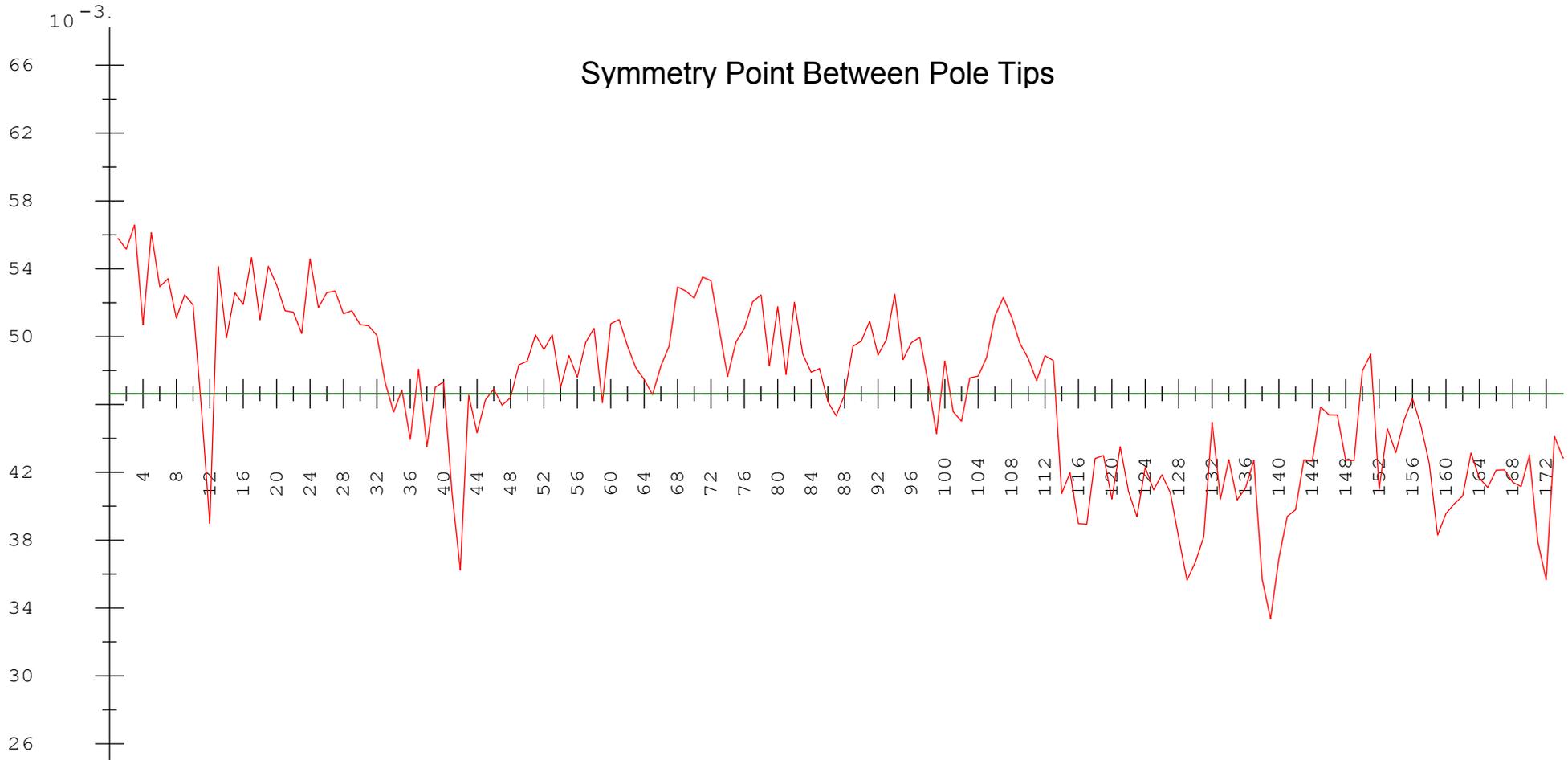
Nominal Gap = 10   Nominal Taper = 0.000

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

29-MAR-2019
S/N = 022
D/S= 0001
Run= 11

Gap Between Opposing Pole Tips

Mean Gap =   10.0431

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

29-MAR-2019
S/N =   022
D/S=   0001
Run=   11

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0466

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

29-MAR-2019
S/N =   022
D/S=   0001
Run=   11

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	5.0719	5.0703	5.0661	5.0644
Bottom	-4.9669	-4.9704	-4.9793	-4.9829
Gap	10.0388			10.0474
Taper				0.0085

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0682	-4.9749	10.0431	0.0466

Additional Calculated Values

Bottom Pole #1 Z Value	980.532
Top Jaw Pitch (mrad)	-0.002
Bottom Jaw Pitch(mrad)	-0.005
Minimum Effective Gap	9.987
Reference Block Gap	6.812

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	29-MAR-2019 S/N = 022 D/S= 0001 Run= 11