Top Jaw Pole Tips

Y Dev. from Mean — 10^{-3}

Mean TOP =   5.0716   Regression Line Ang. (mrad) =   0.0018

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.993

Y Dev. from Mean — 10^{-3}

Mean BTM =   -4.9387   Regression Line Ang. (mrad) =   0.0012

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   7

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

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METROLOGY

LCLS II - SXR Undulator

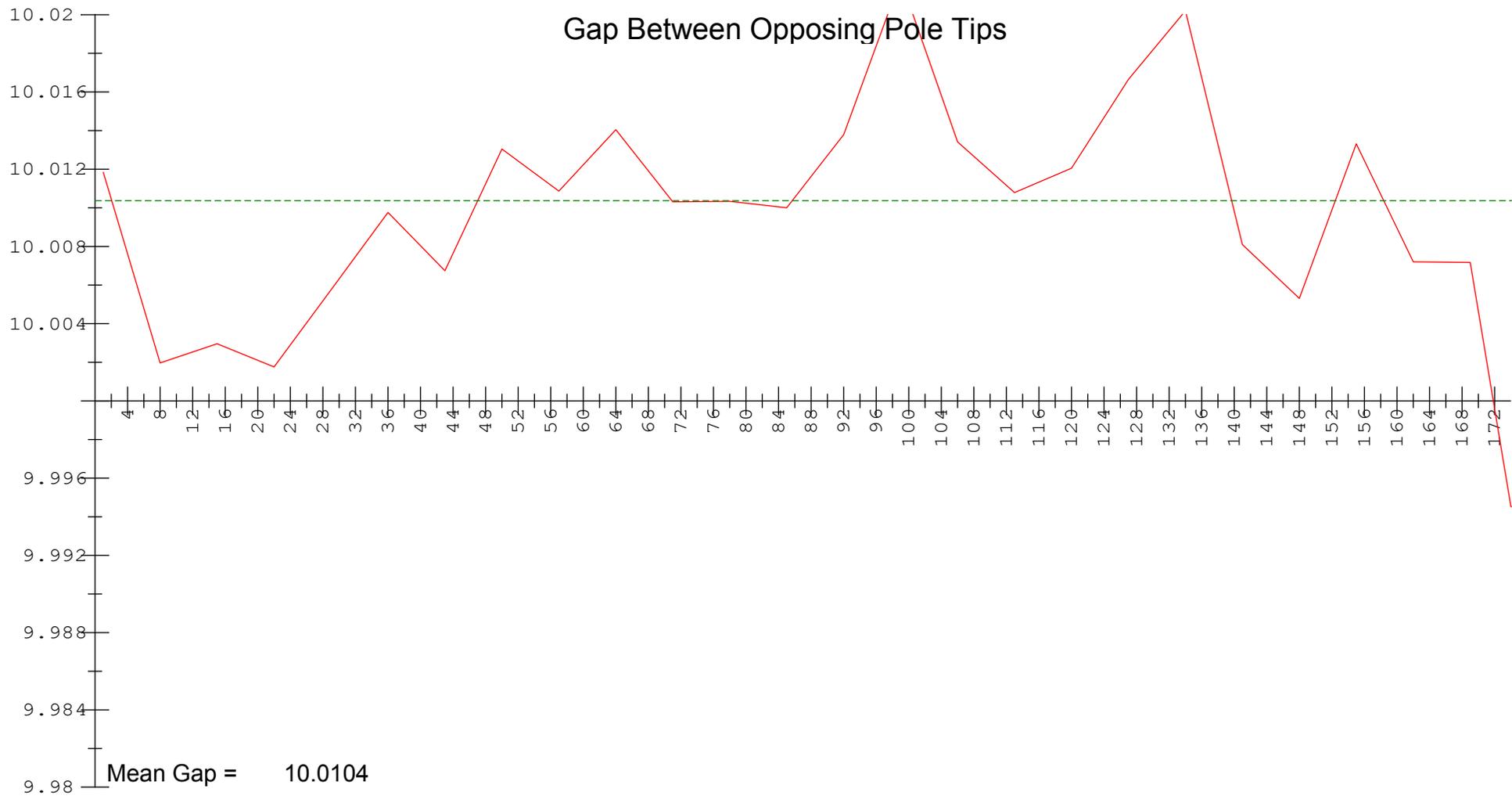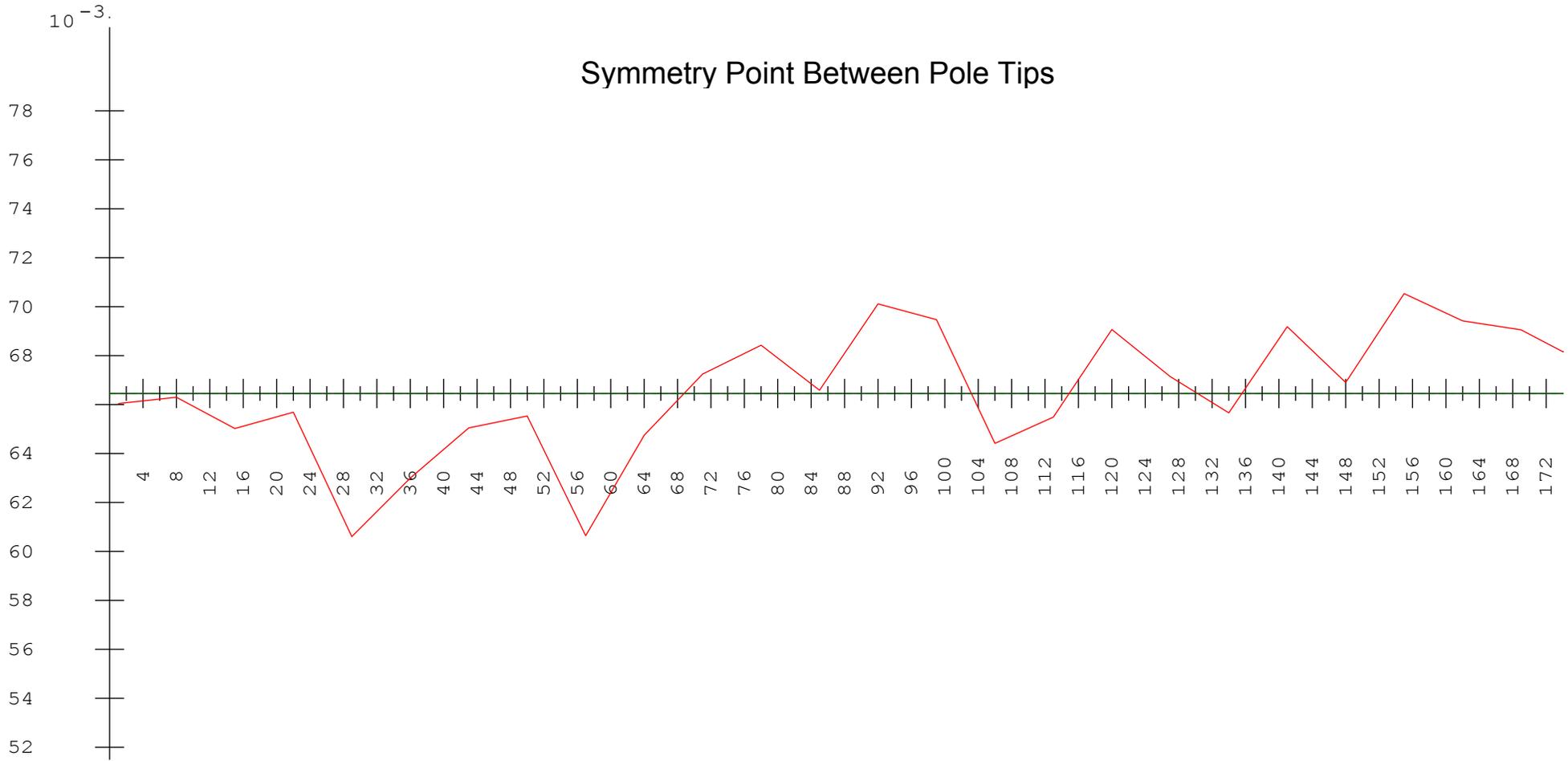Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

22-JUN-2018
S/N =   012
D/S=   0001
Run=   7

Gap Between Opposing Pole Tips

Mean Gap =   10.0104

Step Between Measured Pole Tips =   7   Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

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22-JUN-2018
S/N =   012
D/S=   0001
Run=   7

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0665

Step Between Measured Pole Tips =   7

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 = 10.0001 | 22-JUN-2018 S/N =   012 D/S=   0001 Run=   7 |

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	5.0683	5.0697	5.0730	5.0744
Bottom	-4.9404	-4.9395	-4.9373	-4.9363
Gap	10.0088			10.0107
Taper				0.0019

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0716	-4.9387	10.0104	0.0665

Additional Calculated Values

Bottom Pole #1 Z Value	979.792
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.993
Reference Block Gap	6.808

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

22-JUN-2018
S/N = 012
D/S= 0001
Run= 7