Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Mean TOP =   6.5760   Regression Line Ang. (mrad) =   0.0055
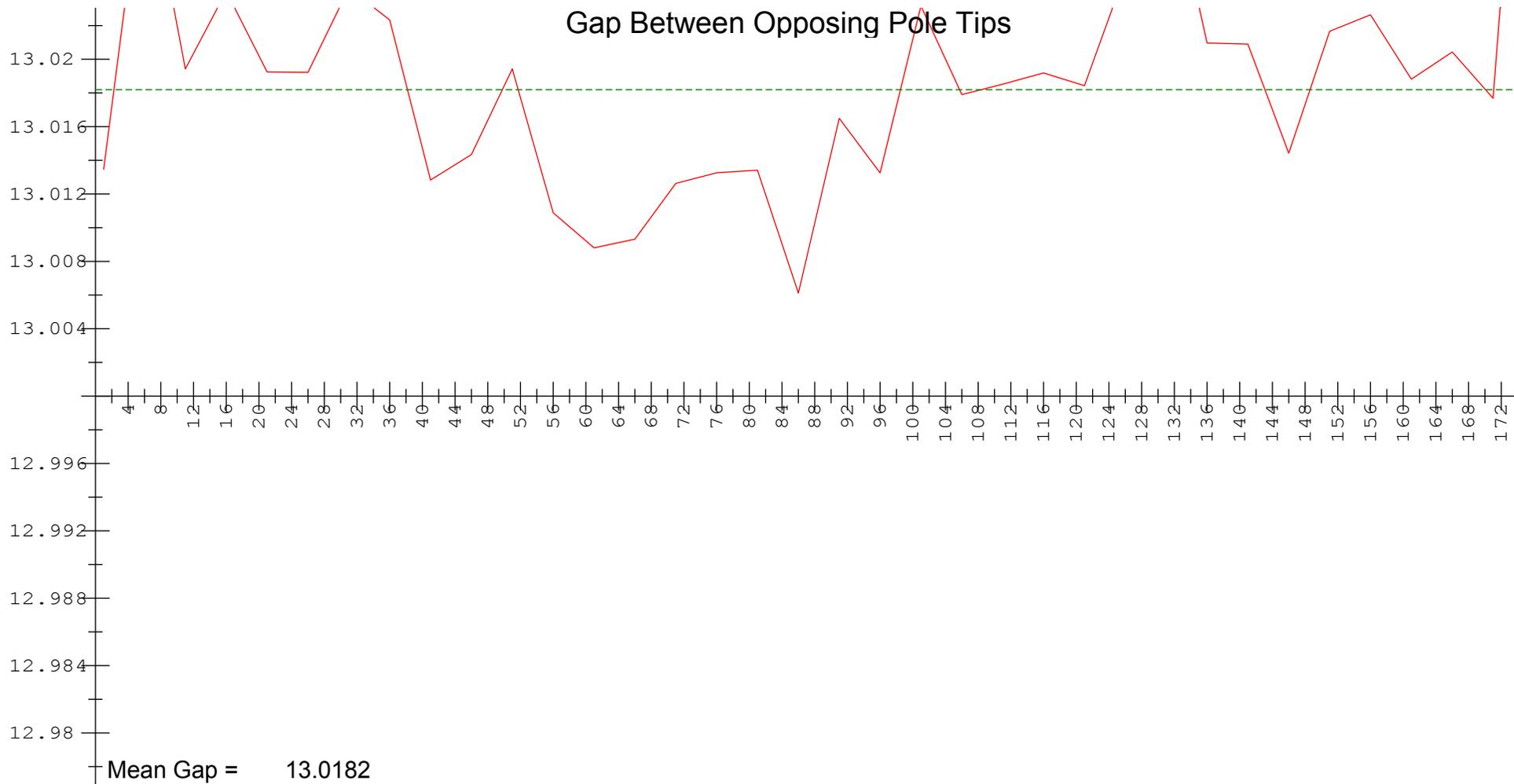
Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   12.994

Y Dev.from Mean

10^{-3}

Mean BTM =   -6.4422   Regression Line Ang. (mrad) =   0.0041

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   5

Regression Line Through Points =
Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0.000
Gap Reading = 13.0000   US Encoder = 13.0001   DS Encoder = 13.0000

16-MAY-2018
S/N =   010
D/S=   0001
Run=   9

Gap Between Opposing Pole Tips

13.02

13.016

13.012

13.008

13.004

12.996

12.992

12.988

12.984

12.98

Mean Gap =   13.0182

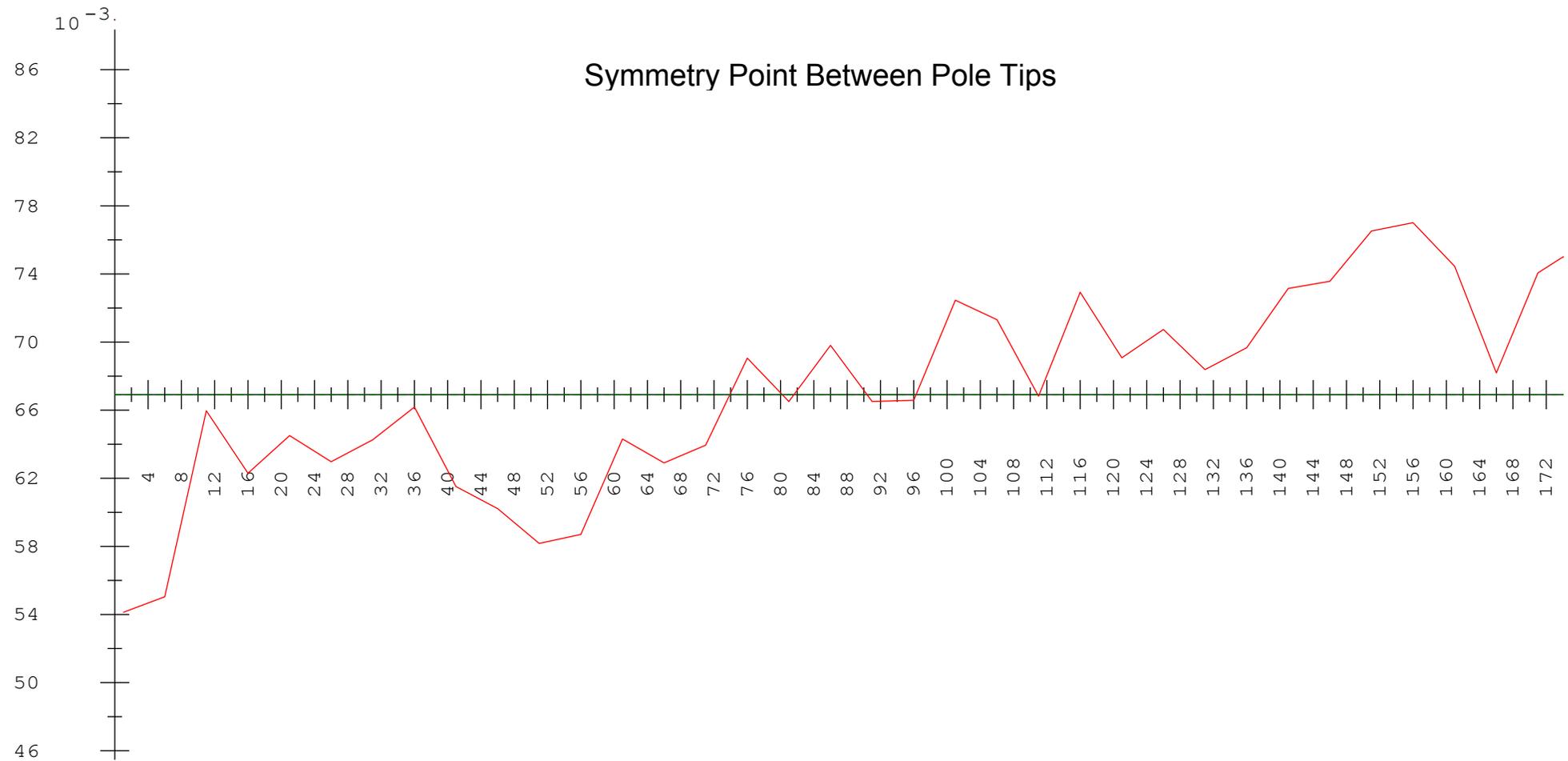Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 13   Nominal Taper = 0.000

Gap Reading = 13.0000   US Encoder = 13.0001   DS Encoder = 13.0000

16-MAY-2018
S/N =   010
D/S=   0001
Run=   9

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Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0669

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 13   Nominal Taper = 0.000

Gap Reading = 13.0000   US Encoder = 13.0001   DS Encoder = 13.0000

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S/N =   010
D/S=   0001
Run=   9

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	6.5672	6.5712	6.5815	6.5856
Bottom	-6.4492	-6.4462	-6.4385	-6.4353
Gap	13.0164			13.0210
Taper				0.0046

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.5760	-6.4422	13.0182	0.0669

Additional Calculated Values

Bottom Pole #1 Z Value	979.704
Top Jaw Pitch (mrad)	0.005
Bottom Jaw Pitch(mrad)	0.004
Minimum Effective Gap	12.994
Reference Block Gap	6.802

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0.000
Gap Reading = 13.0000   US Encoder = 13.0001   DS Encoder = 13.0000

16-MAY-2018
S/N = 010
D/S= 0001
Run= 9