Top Jaw Pole Tips

Y Dev.from Mean

0.126
0.108
0.09
0.072
0.054
0.036
0.018
-0.018
-0.036
-0.054
-0.072
-0.09
-0.108
-0.126

4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 112 116 120 124 128 132 136 140 144 148 152 156 160 164 168 172

Mean TOP =   5.1090   Regression Line Ang. (mrad) =   -0.0235

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.983

Y Dev.from Mean

0.126
0.108
0.09
0.072
0.054
0.036
0.018
-0.018
-0.036
-0.054
-0.072
-0.09
-0.108
-0.126

4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92 96 100 104 108 112 116 120 124 128 132 136 140 144 148 152 156 160 164 168 172

Mean BTM =   -5.0345   Regression Line Ang. (mrad) =   0.0716

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

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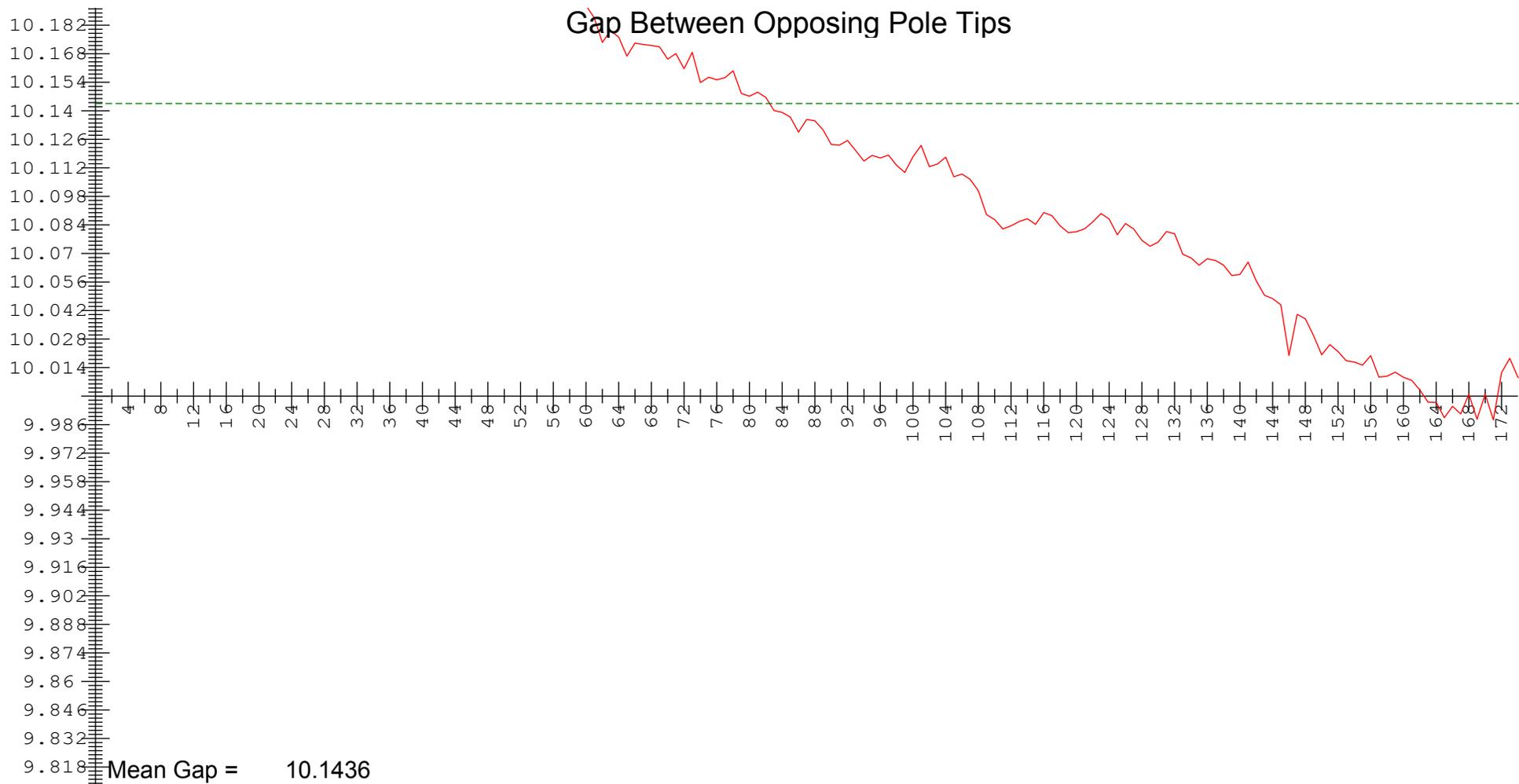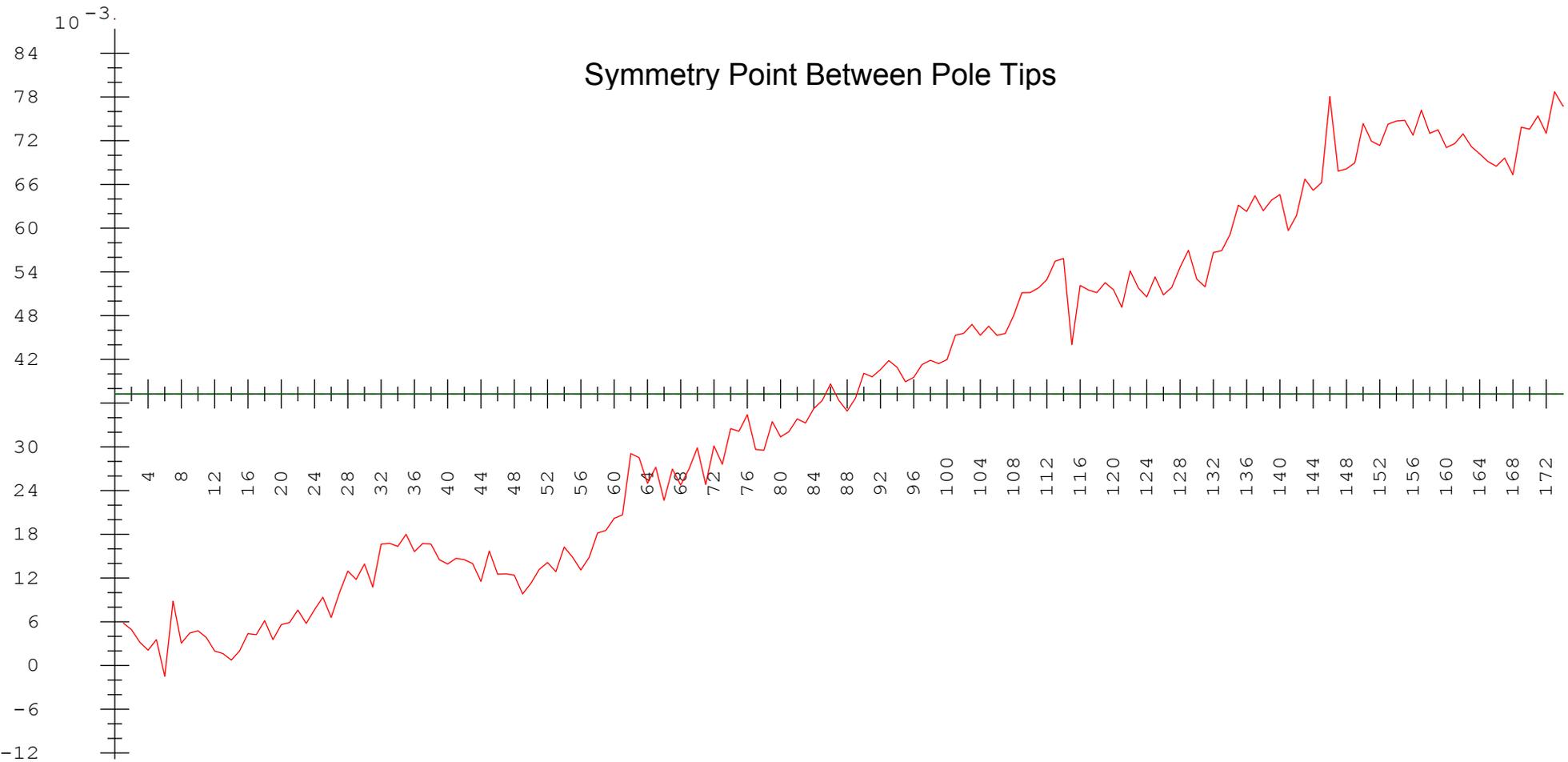
LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0001

15-MAY-2018
S/N =   010
D/S=   0001
Run=   1

Gap Between Opposing Pole Tips

Mean Gap =   10.1436

Step Between Measured Pole Tips =   1

Dimensions in mm

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0373

Step Between Measured Pole Tips =   1

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

15-MAY-2018
S/N =   010
D/S=   0001
Run=   1

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	5.1487	5.1313	5.0873	5.0694
Bottom	-5.1554	-5.1023	-4.9682	-4.9137
Gap	10.3041			9.9831
Taper				-0.3210

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1090	-5.0345	10.1436	0.0373

Additional Calculated Values

Bottom Pole #1 Z Value	979.704
Top Jaw Pitch (mrad)	-0.024
Bottom Jaw Pitch(mrad)	0.072
Minimum Effective Gap	9.983
Reference Block Gap	6.802

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

15-MAY-2018
S/N = 010
D/S= 0001
Run= 1