Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP =   4.9534   Regression Line Ang. (mrad) =   0.0079

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.961

10^{-3}

Y Dev. from Mean

Mean BTM = -5.0999   Regression Line Ang. (mrad) =   -0.0195

Y Value Scales Centered on Mean Values   Regression Line Through Points = ————
Step Between Measured Pole Tips =   1   Dimensions in mm
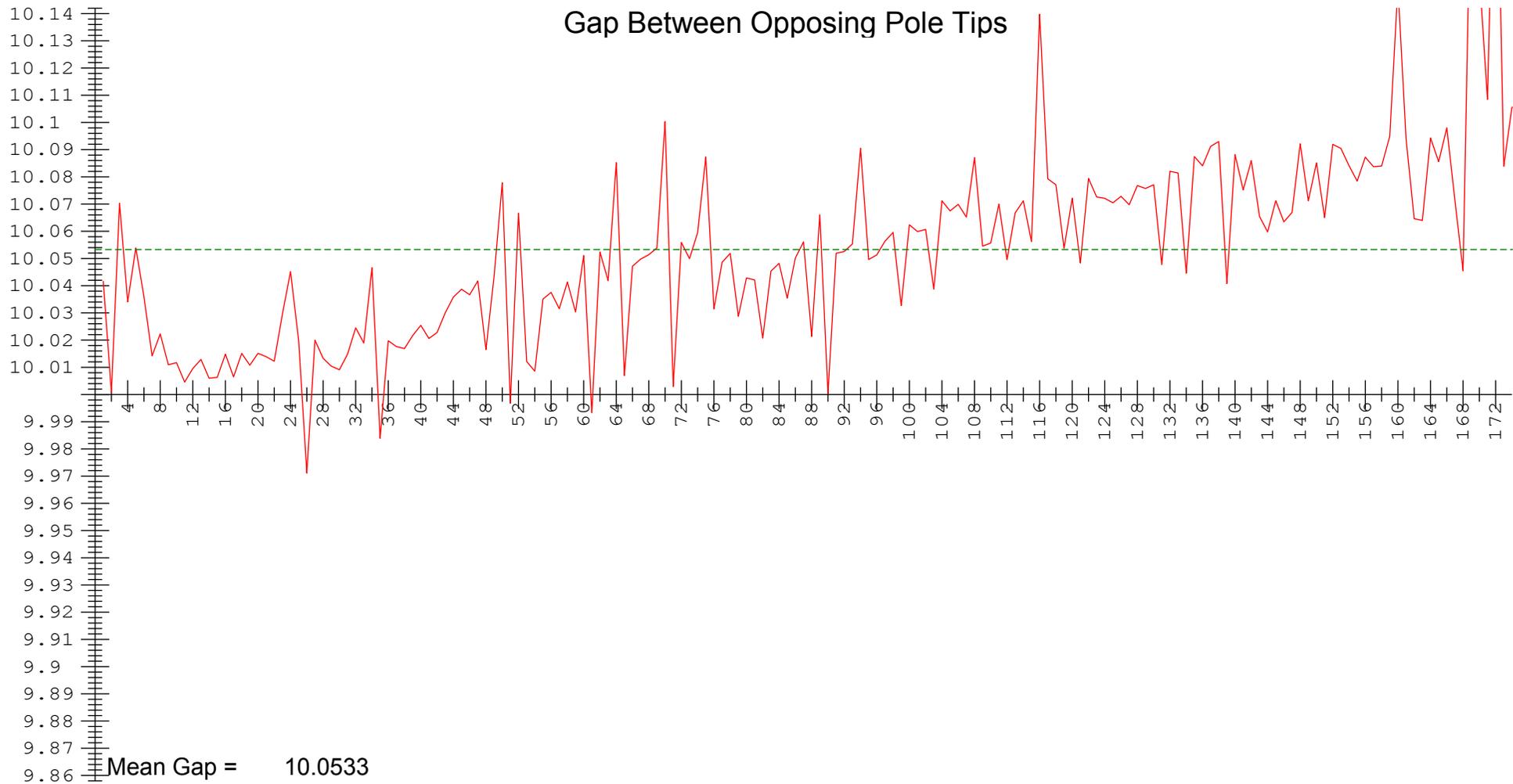
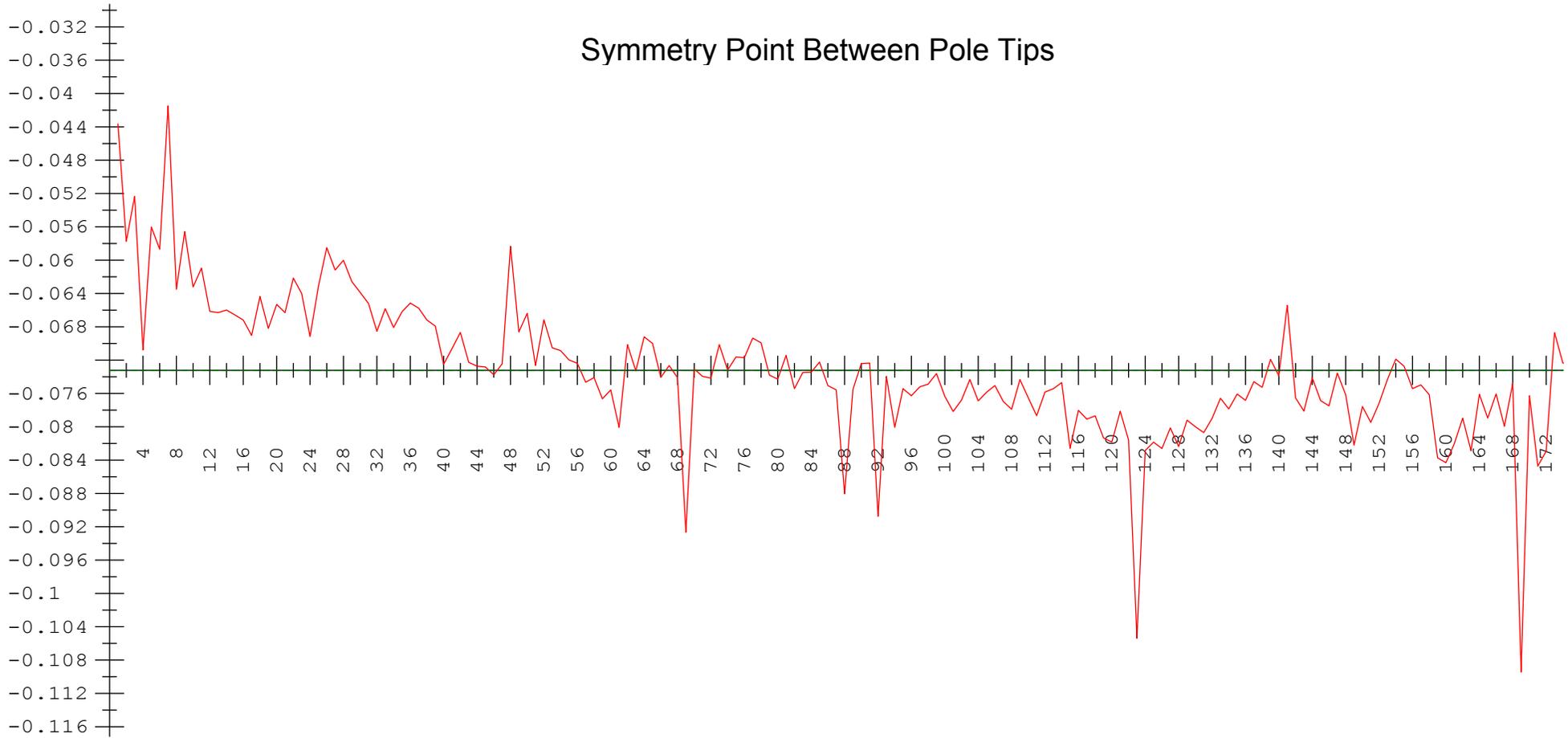**SLAC** NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

15-AUG-2018
S/N =   011
D/S=   0002
Run=   4

Gap Between Opposing Pole Tips

Mean Gap =   10.0533

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

15-AUG-2018
S/N =   011
D/S=   0002
Run=   4

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0732

Step Between Measured Pole Tips =   1

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | LCLS II - SXR Undulator Nominal Gap = 10   Nominal Taper = 0.100 Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000 | 15-AUG-2018 S/N =   011 D/S=   0002 Run=   4 |

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	4.9401	4.9459	4.9607	4.9667
Bottom	-5.0670	-5.0814	-5.1179	-5.1327
Gap	10.0071			10.0995
Taper				0.0924

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9534	-5.0999	10.0533	-0.0732

Additional Calculated Values

Bottom Pole #1 Z Value	979.841
Top Jaw Pitch (mrad)	0.008
Bottom Jaw Pitch(mrad)	-0.019
Minimum Effective Gap	9.961
Reference Block Gap	6.805

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 10.0500   US Encoder = 10.0000   DS Encoder = 10.1000

15-AUG-2018
S/N = 011
D/S = 0002
Run = 4