Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.0941   Regression Line Ang. (mrad) =   0.0100

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   10.013

Bottom Jaw Pole Tips

Y Dev. from Mean

Mean BTM =   -5.0220   Regression Line Ang. (mrad) =   0.0299

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 = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

21-NOV-2019
S/N =   021
D/S=   0001
Run=   1

Gap Between Opposing Pole Tips

Mean Gap =   10.1161

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

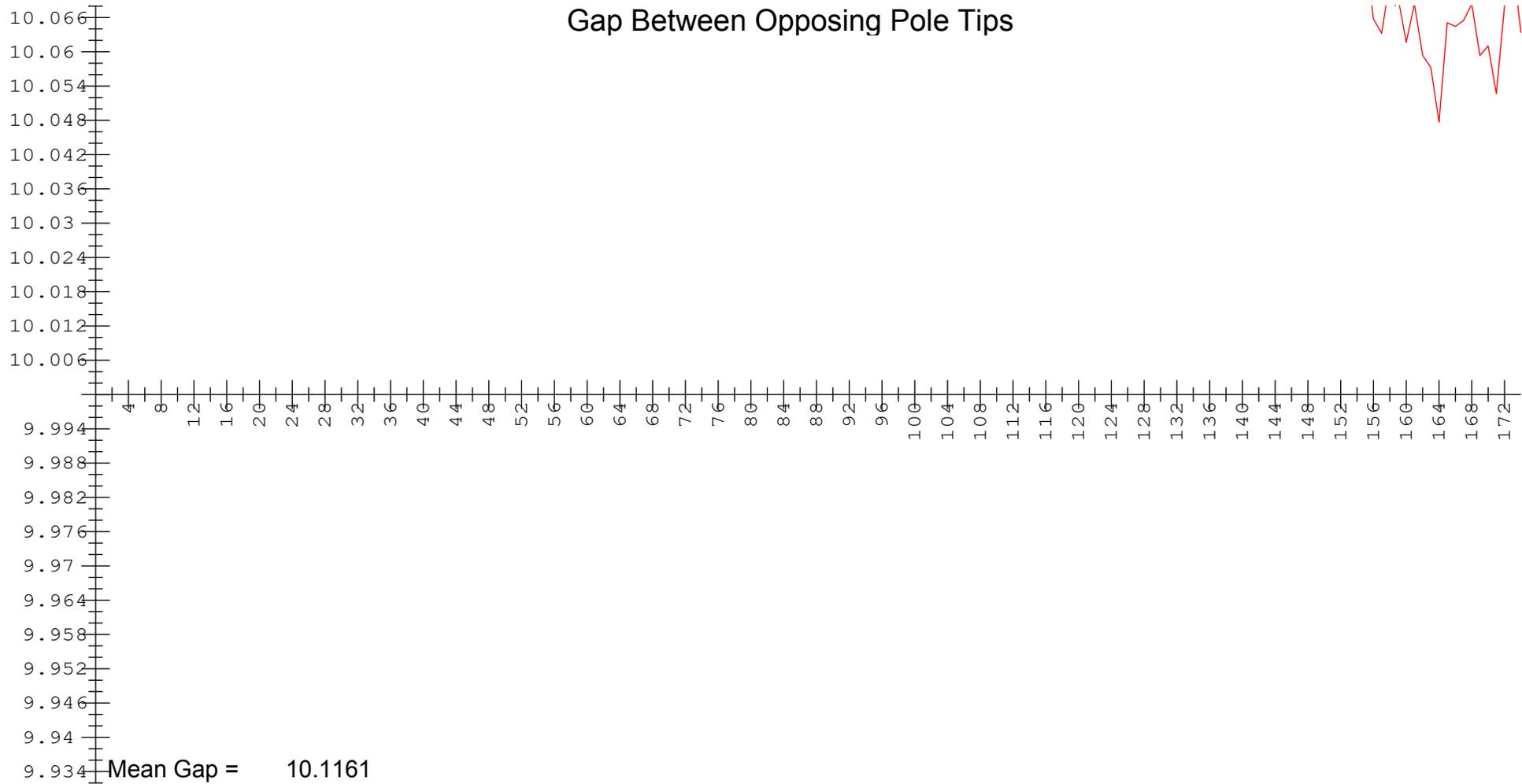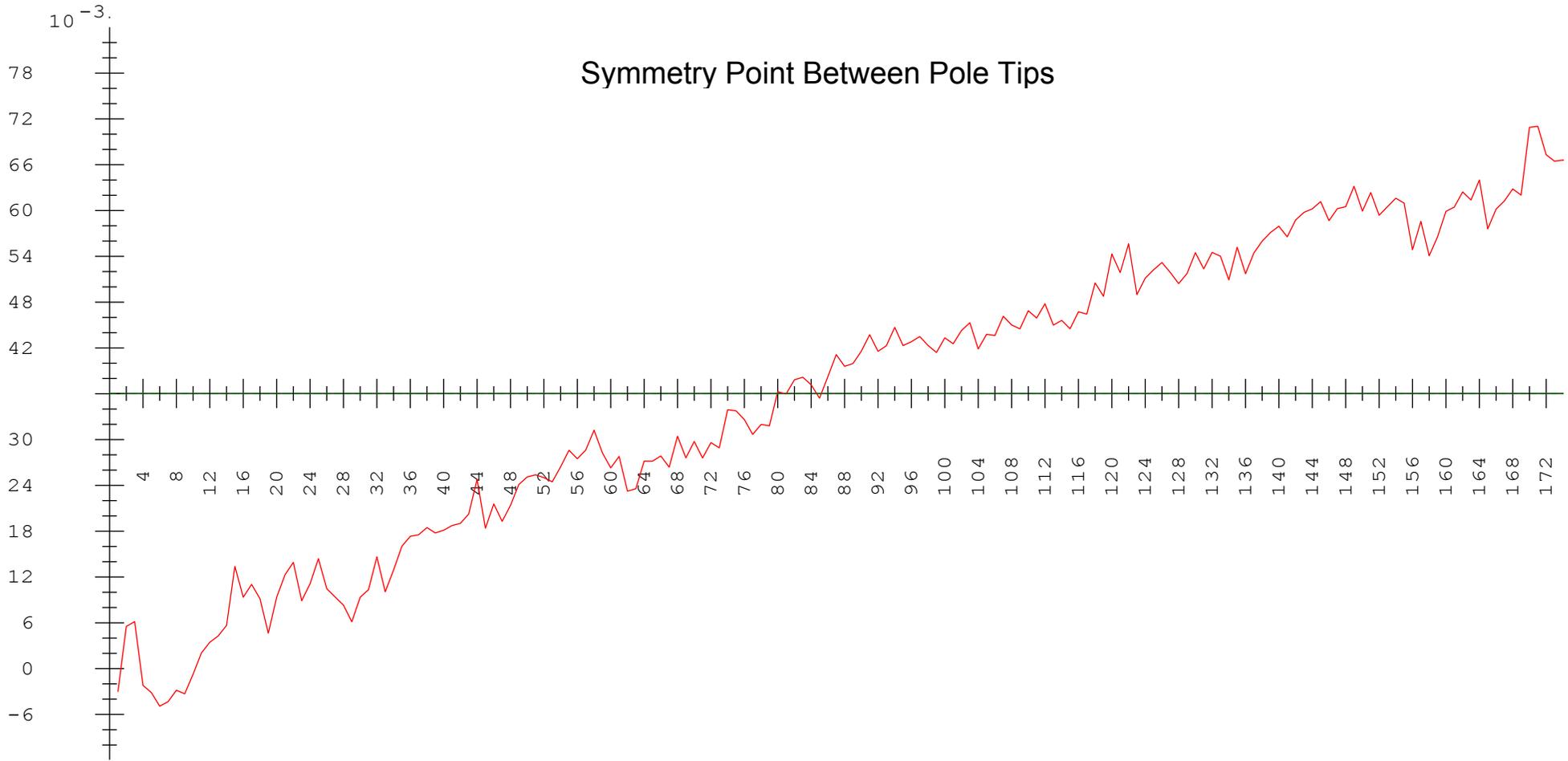Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

21-NOV-2019
S/N =   021
D/S=   0001
Run=   1

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0360

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

21-NOV-2019
S/N =   021
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	5.0772	5.0846	5.1034	5.1110
Bottom	-5.0725	-5.0503	-4.9943	-4.9716
Gap	10.1497			10.0826
Taper				-0.0671

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0941	-5.0220	10.1161	0.0360

Additional Calculated Values

Bottom Pole #1 Z Value	980.155
Top Jaw Pitch (mrad)	0.010
Bottom Jaw Pitch(mrad)	0.030
Minimum Effective Gap	10.013
Reference Block Gap	6.799

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

21-NOV-2019
S/N =   021
D/S=   0001
Run=   1