Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Pole Tip Num. ---->

Mean TOP =   5.5838   Regression Line Ang. (mrad) =   -0.0010

Bottom Jaw Pole Tips

Minimum Effective Gap =   10.971

Y Dev.from Mean

10^{-3}

Mean BTM =   -5.4255   Regression Line Ang. (mrad) =   -0.0005

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   10

Regression Line Through Points =
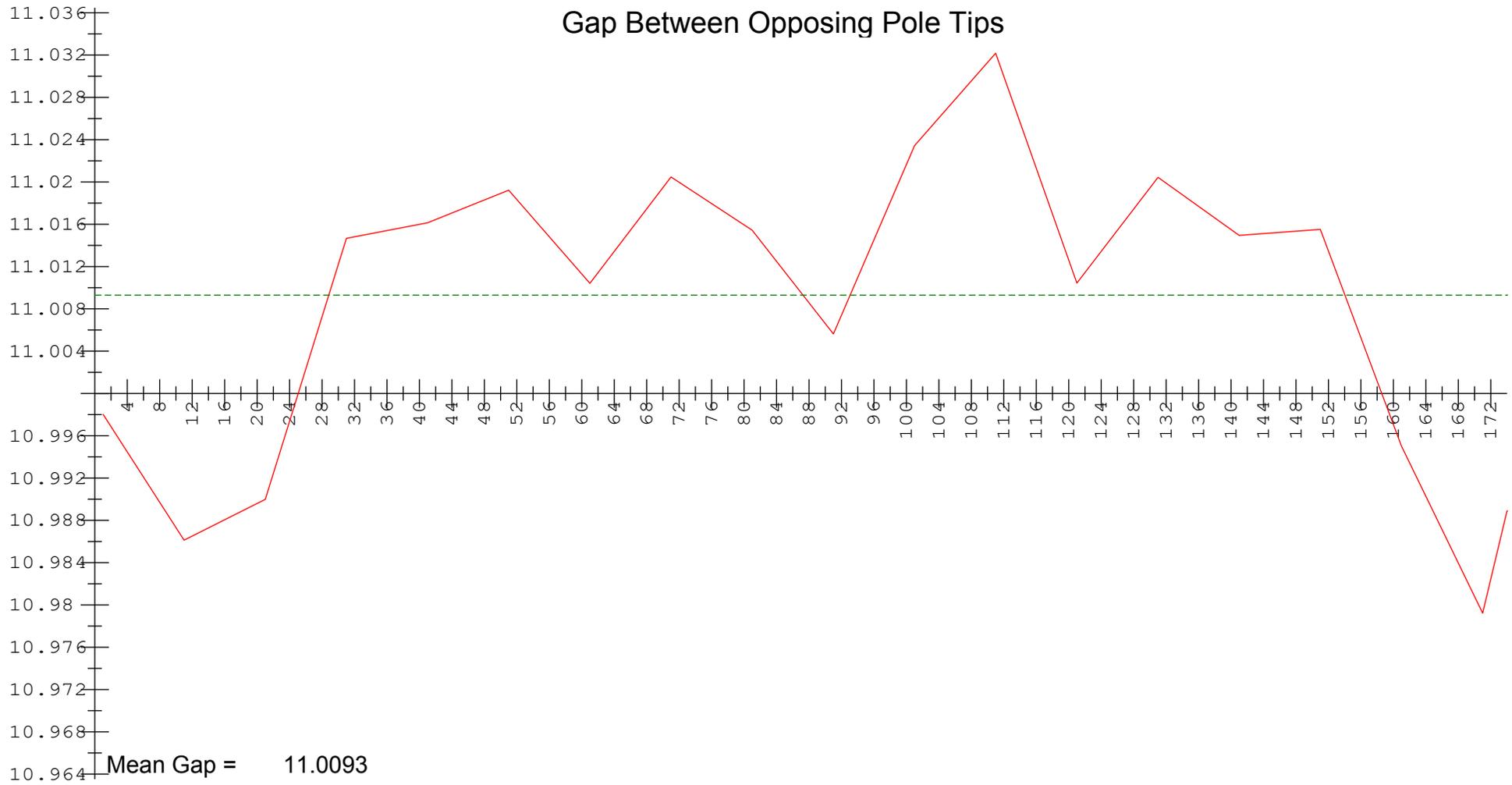Dimensions in mm
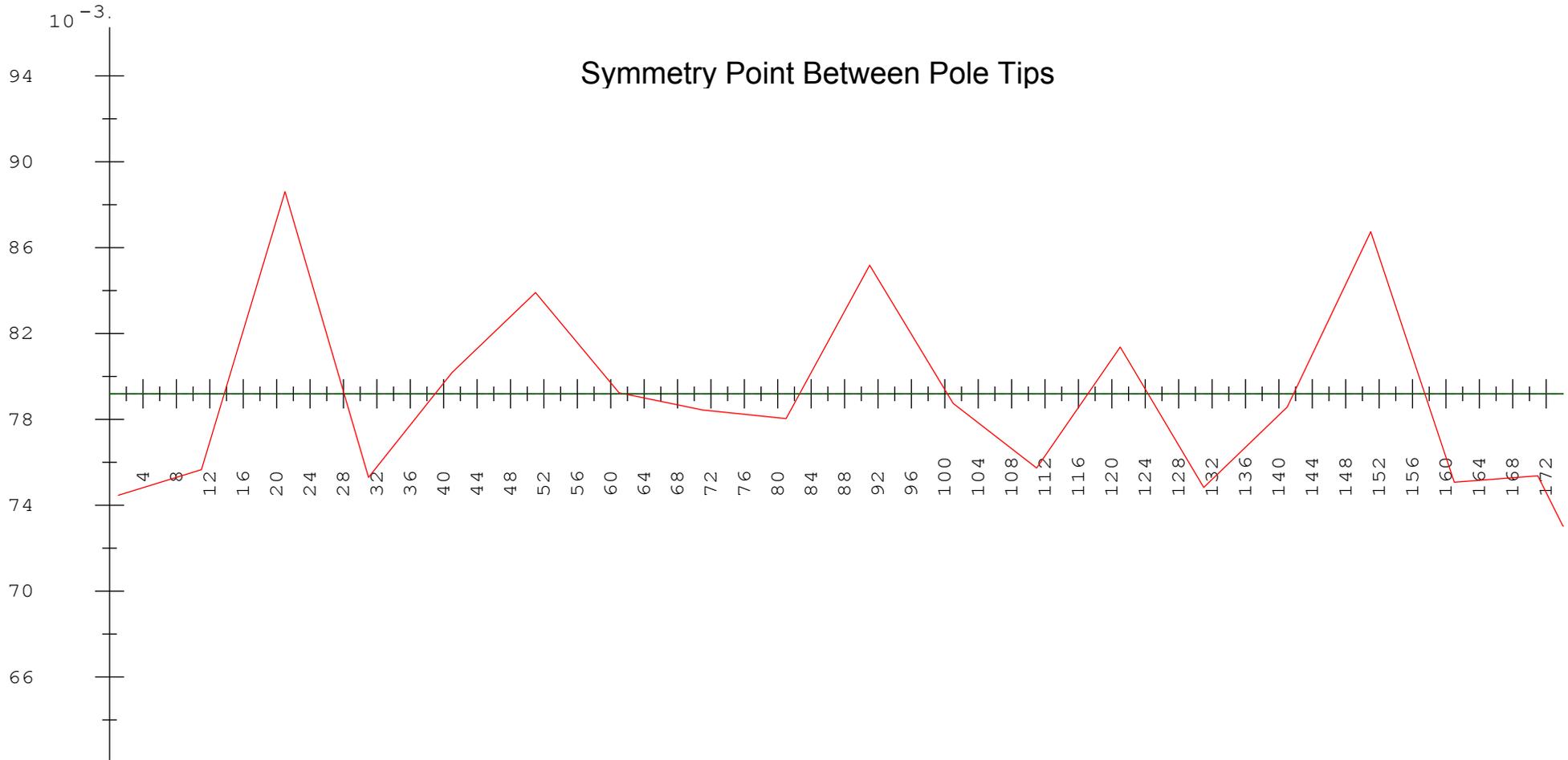
LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0001   US Encoder = 0.0110   DS Encoder = 0.0110

22-NOV-2019
S/N =   021
D/S=   0001
Run=   7

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

Gap Between Opposing Pole Tips

Mean Gap =   11.0093

Step Between Measured Pole Tips =   10

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0001   US Encoder = 0.0110   DS Encoder = 0.0110

SLAC

NATIONAL ACCELERATOR LABORATORY

METROLOGY

22-NOV-2019
S/N =   021
D/S=   0001
Run=   7

Symmetry Point Between Pole Tips

10^{-3}.

Mean Symmetry Value =   0.0792

Step Between Measured Pole Tips =   10

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0001   US Encoder = 0.0110   DS Encoder = 0.0110

NATIONAL ACCELERATOR LABORATORY

METROLOGY

22-NOV-2019
S/N =   021
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	5.5847	5.5840	5.5821	5.5814
Bottom	-5.4244	-5.4248	-5.4257	-5.4260
Gap	11.0091			11.0074
Taper				-0.0017

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.5838	-5.4255	11.0093	0.0792

Additional Calculated Values

Bottom Pole #1 Z Value	980.155
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.000
Minimum Effective Gap	10.971
Reference Block Gap	6.799

Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11   Nominal Taper = 0.000
Gap Reading = 11.0001   US Encoder = 0.0110   DS Encoder = 0.0110

22-NOV-2019
S/N =   021
D/S=   0001
Run=   7