Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.0463   Regression Line Ang. (mrad) =   0.0097

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.974

Y Dev. from Mean

Mean BTM =   -5.0016   Regression Line Ang. (mrad) =   -0.0247

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

SLAC
NATIONAL ACCELERATOR LABORATORY
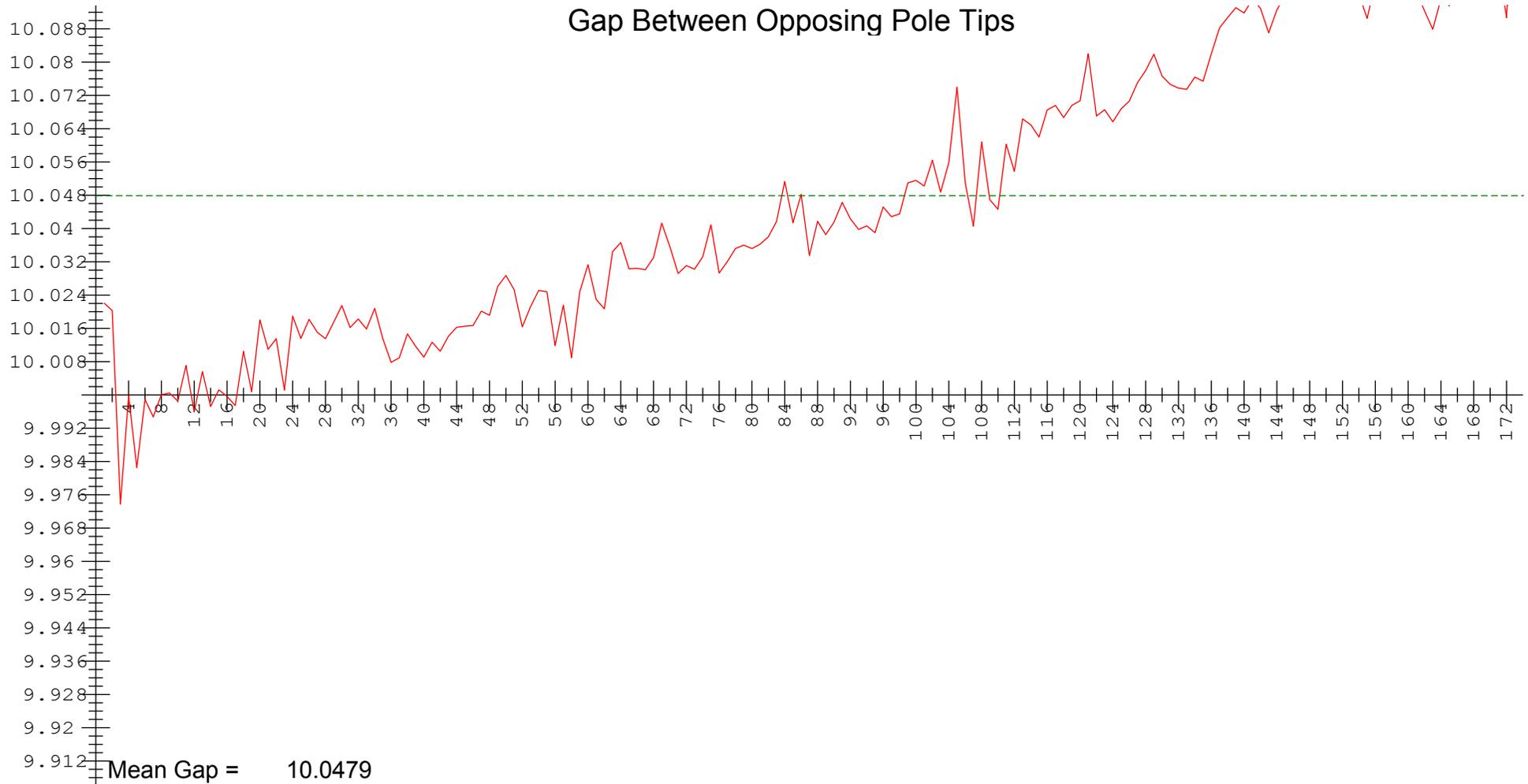### METROLOGY

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

19-APR-2018
S/N =   009
D/S=   0001
Run=   15

Gap Between Opposing Pole Tips

Mean Gap =   10.0479

Step Between Measured Pole Tips =   1
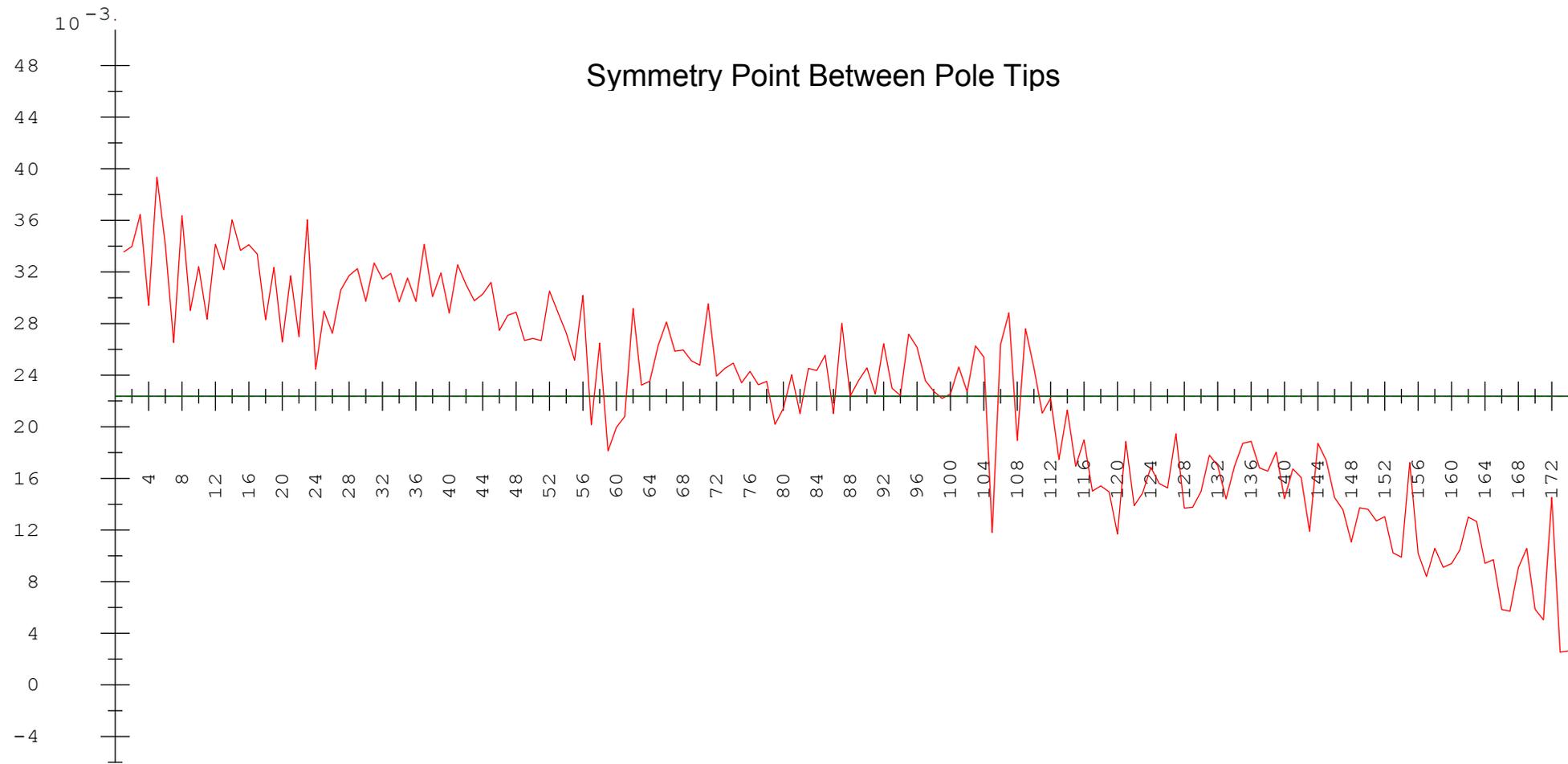
Dimensions in mm

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

19-APR-2018
S/N =   009
D/S=   0001
Run=   15

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0224

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

19-APR-2018
S/N =   009
D/S=   0001
Run=   15

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

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	5.0299	5.0371	5.0553	5.0627
Bottom	-4.9599	-4.9782	-5.0245	-5.0433
Gap	9.9898			10.1060
Taper				0.1162

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0463	-5.0016	10.0479	0.0224

Additional Calculated Values

Bottom Pole #1 Z Value	979.421
Top Jaw Pitch (mrad)	0.010
Bottom Jaw Pitch(mrad)	-0.025
Minimum Effective Gap	9.974
Reference Block Gap	6.806

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

19-APR-2018
S/N = 009
D/S= 0001
Run= 15