Top Jaw Pole Tips

Y Dev. from Mean

10^{-3}

Mean TOP =   5.9625   Regression Line Ang. (mrad) =   -0.0023

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   11.469

Y Dev. from Mean

10^{-3}

Mean BTM =   -5.5481   Regression Line Ang. (mrad) =   -0.0001

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   7

Regression Line Through Points = —————
Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
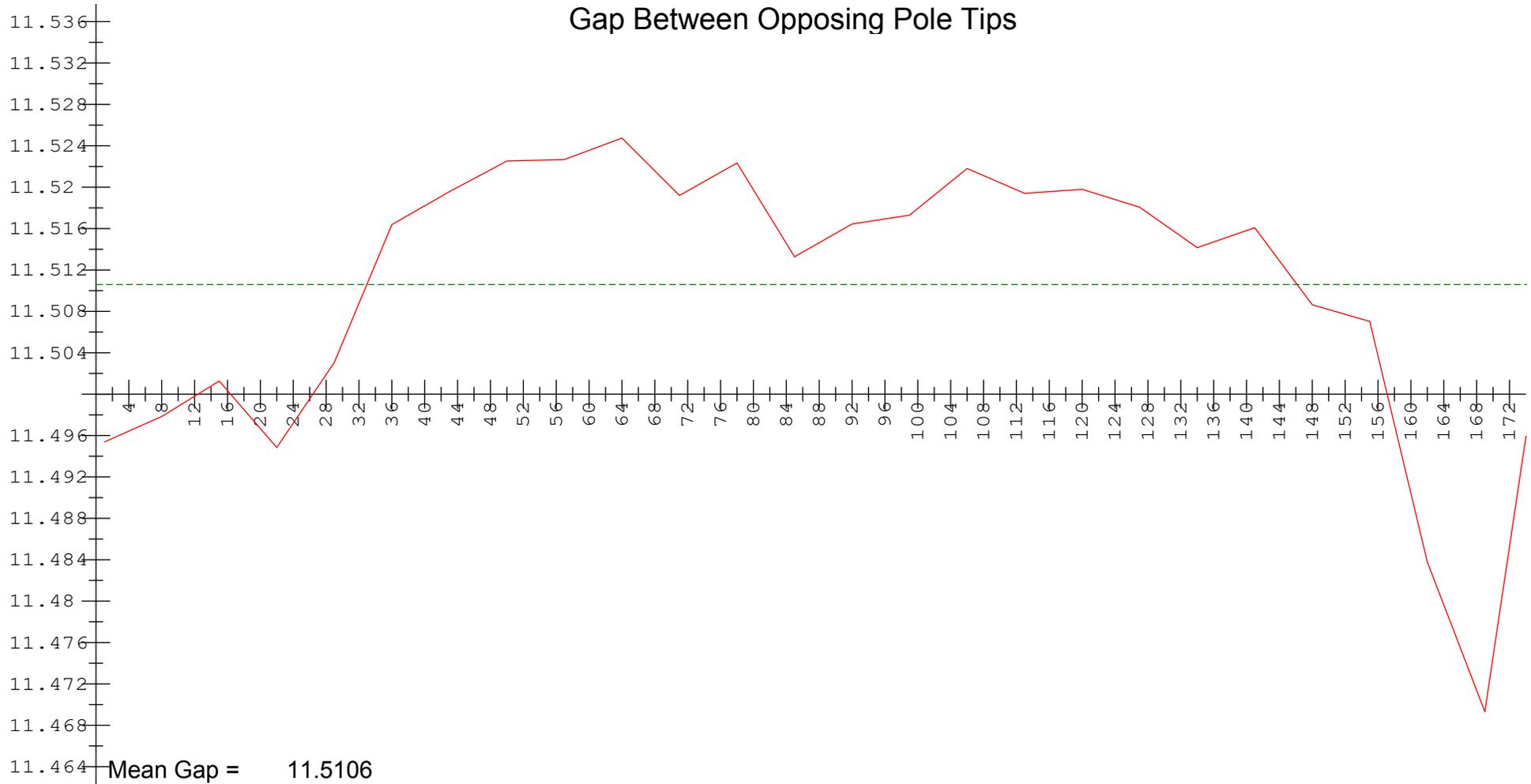METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11.5   Nominal Taper = 0.000
Gap Reading = 11.5000   US Encoder = 11.5001   DS Encoder = 11.5000

18-DEC-2018
S/N =   018
D/S=   0001
Run=   6

Gap Between Opposing Pole Tips

Mean Gap =   11.5106

Step Between Measured Pole Tips =   7

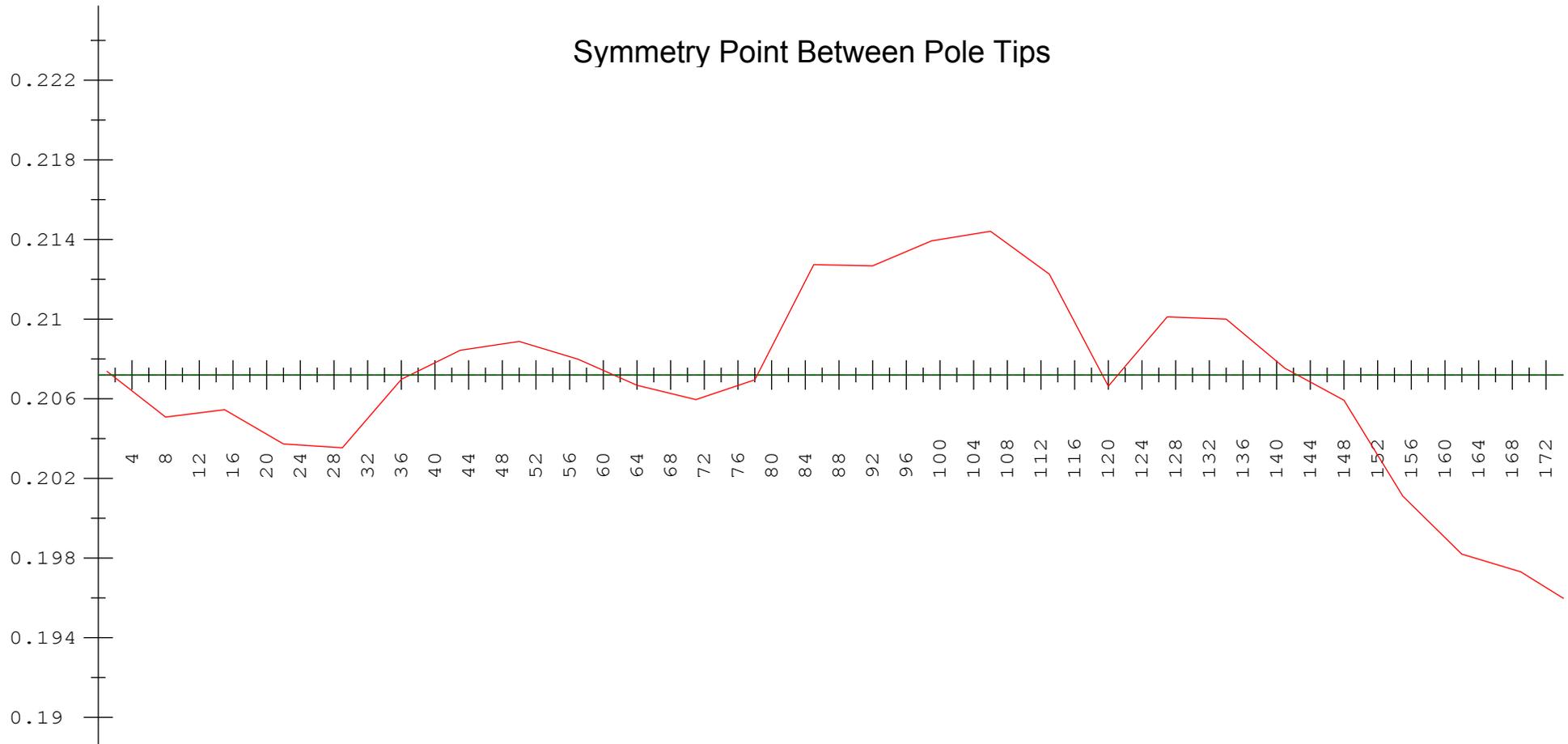Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11.5   Nominal Taper = 0.000

Gap Reading = 11.5000   US Encoder = 11.5001   DS Encoder = 11.5000

18-DEC-2018
S/N =   018
D/S=   0001
Run=   6

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METROLOGY

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2072

Step Between Measured Pole Tips =   7

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11.5   Nominal Taper = 0.000
Gap Reading = 11.5000   US Encoder = 11.5001   DS Encoder = 11.5000

18-DEC-2018
S/N =   018
D/S=   0001
Run=   6

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	5.9657	5.9640	5.9597	5.9579
Bottom	-5.5480	-5.5481	-5.5484	-5.5485
Gap	11.5137			11.5064
Taper				-0.0073

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.9625	-5.5481	11.5106	0.2072

Additional Calculated Values

Bottom Pole #1 Z Value	980.178
Top Jaw Pitch (mrad)	-0.002
Bottom Jaw Pitch(mrad)	0.000
Minimum Effective Gap	11.469
Reference Block Gap	6.806

Dimensions in mm

METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11.5   Nominal Taper = 0.000
Gap Reading = 11.5000   US Encoder = 11.5001   DS Encoder = 11.5000

18-DEC-2018
S/N = 018
D/S = 0001
Run= 6