Top Jaw Pole Tips

10^{-3}

Y Dev.from Mean

Pole Tip Num. ---->

Mean TOP = 10.1397   Regression Line Ang. (mrad) = -0.0017

Bottom Jaw Pole Tips

Minimum Effective Gap = 19.833

10^{-3}

Y Dev.from Mean

Mean BTM = -9.7900   Regression Line Ang. (mrad) = 0.0051

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

Regression Line Through Points =
Dimensions in mm

SLAC
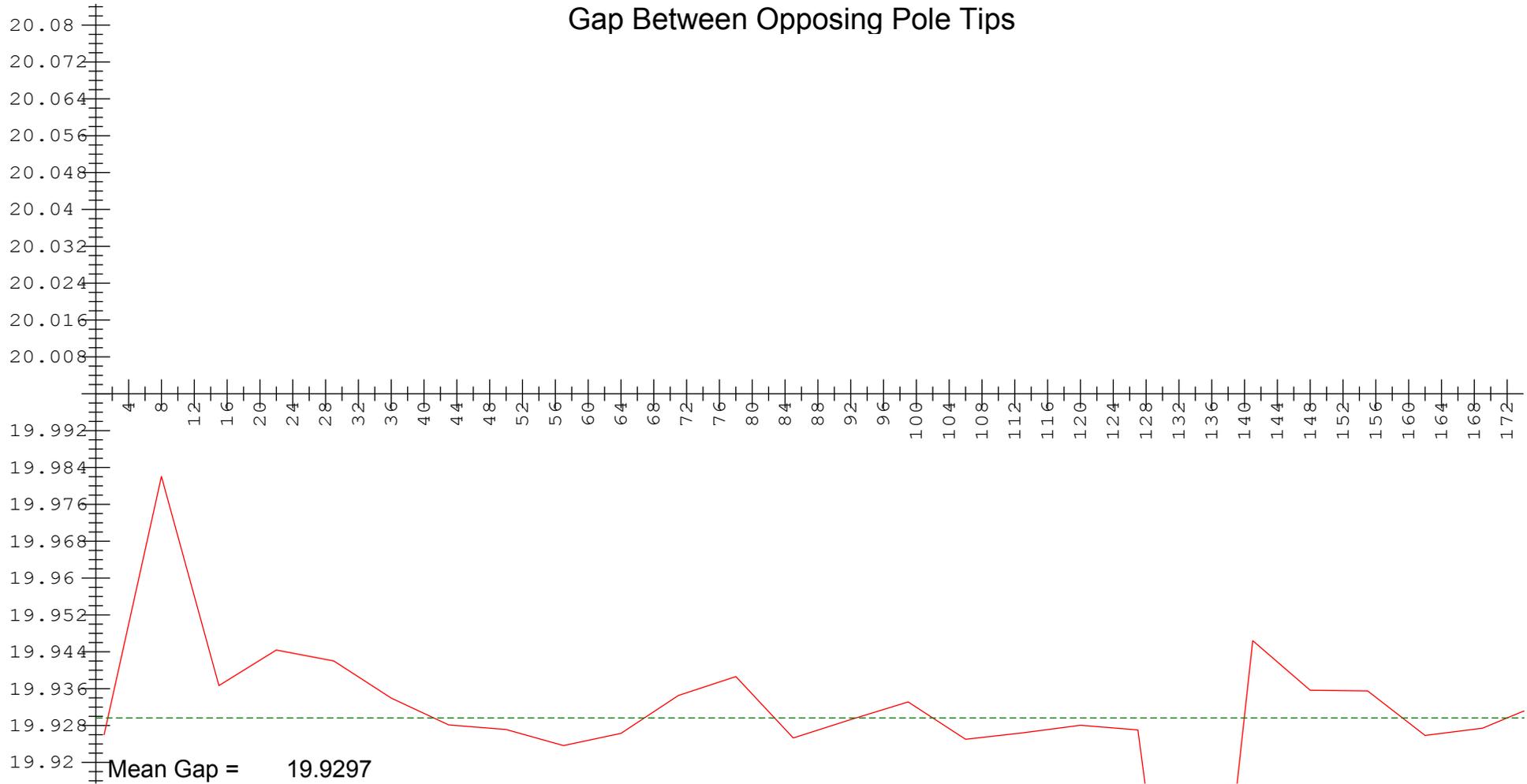NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20   Nominal Taper = 0.000
Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000

13-SEP-2018
S/N = 001
D/S = 0004
Run = 11

Gap Between Opposing Pole Tips

Mean Gap = 19.9297
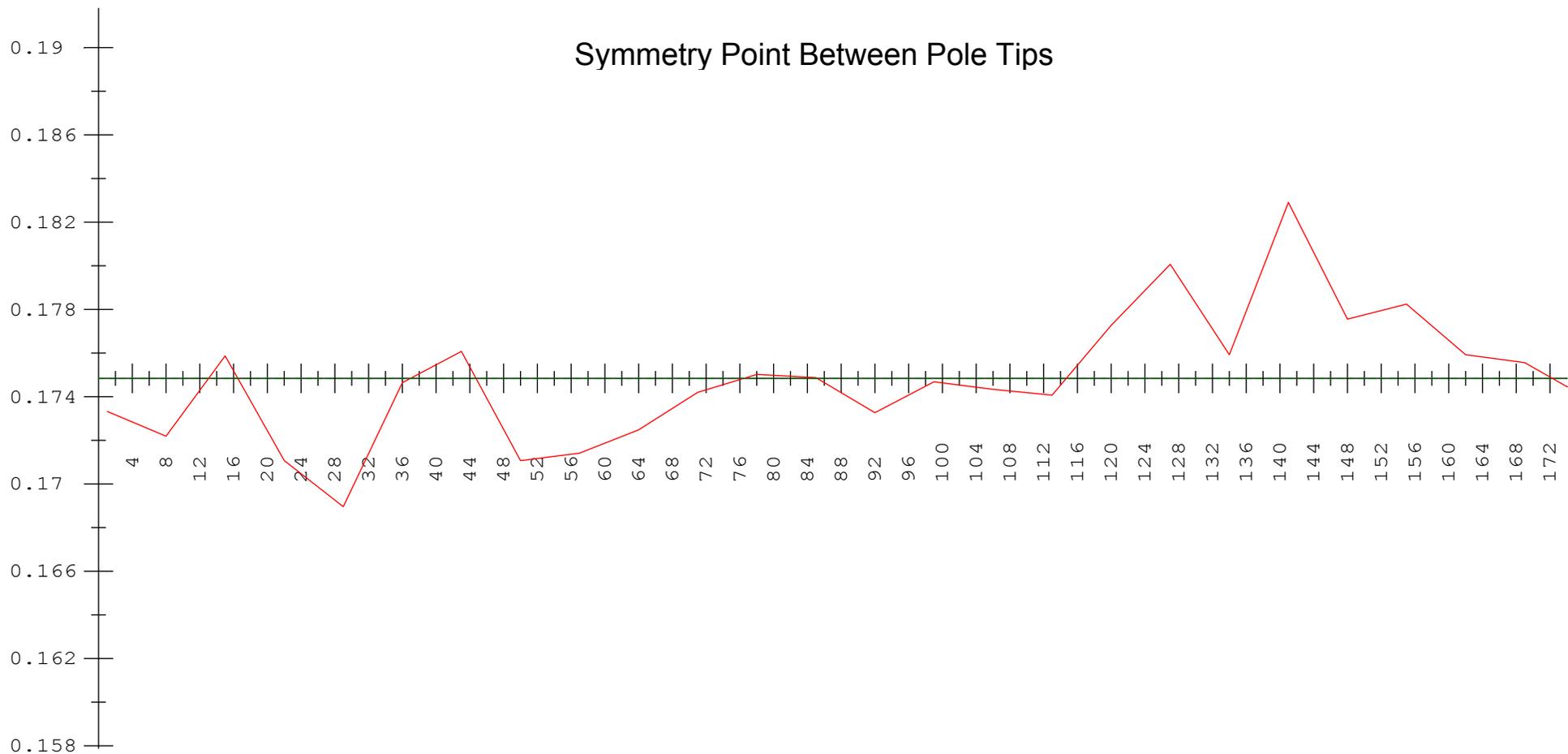
Step Between Measured Pole Tips = 7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 20   Nominal Taper = 0.000

Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000

SLAC

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METROLOGY

13-SEP-2018
S/N =   001
D/S=   0004
Run=   11

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1748

Step Between Measured Pole Tips =   7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 20   Nominal Taper = 0.000

Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000

13-SEP-2018
S/N =   001
D/S=   0004
Run=   11

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	10.1426	10.1413	10.1381	10.1368
Bottom	-9.7987	-9.7949	-9.7854	-9.7815
Gap	19.9413			19.9184
Taper				-0.0230

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
10.1397	-9.7900	19.9297	0.1748

Additional Calculated Values

Bottom Pole #1 Z Value	979.975
Top Jaw Pitch (mrad)	-0.002
Bottom Jaw Pitch(mrad)	0.005
Minimum Effective Gap	19.833
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20   Nominal Taper = 0.000
Gap Reading = 20.0000   US Encoder = 20.0000   DS Encoder = 20.0000

13-SEP-2018
S/N = 001
D/S= 0004
Run= 11