Top Jaw Pole Tips

Pole Tip Num. ---->

Mean TOP =   4.9841   Regression Line Ang. (mrad) =   0.0016

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.981
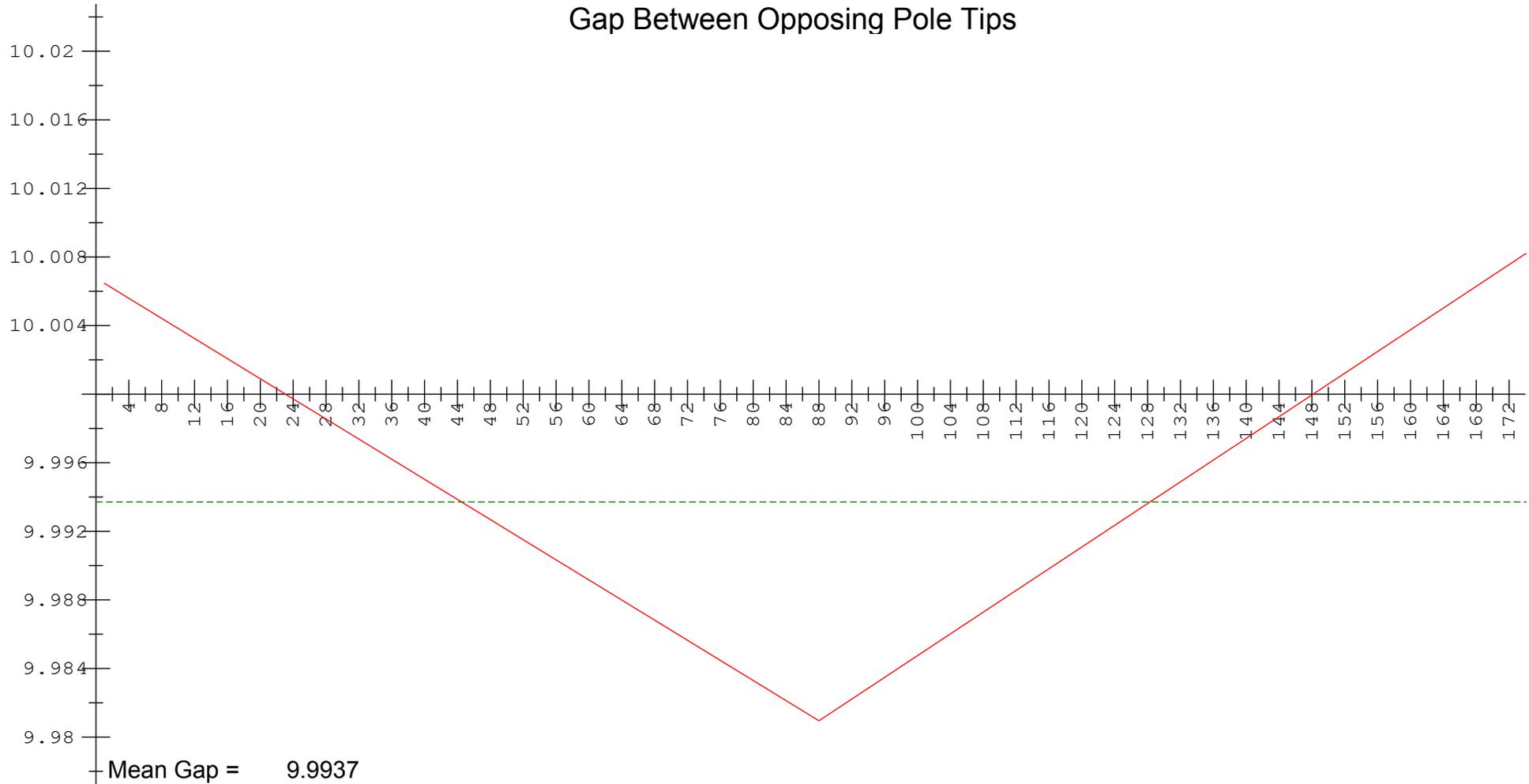
Mean BTM =   -5.0096   Regression Line Ang. (mrad) =   0.0011

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   87

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

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

13-AUG-2019
S/N =   001
D/S=   0007
Run=   55

Gap Between Opposing Pole Tips

Mean Gap =   9.9937

Step Between Measured Pole Tips =   87

Dimensions in mm

SLAC
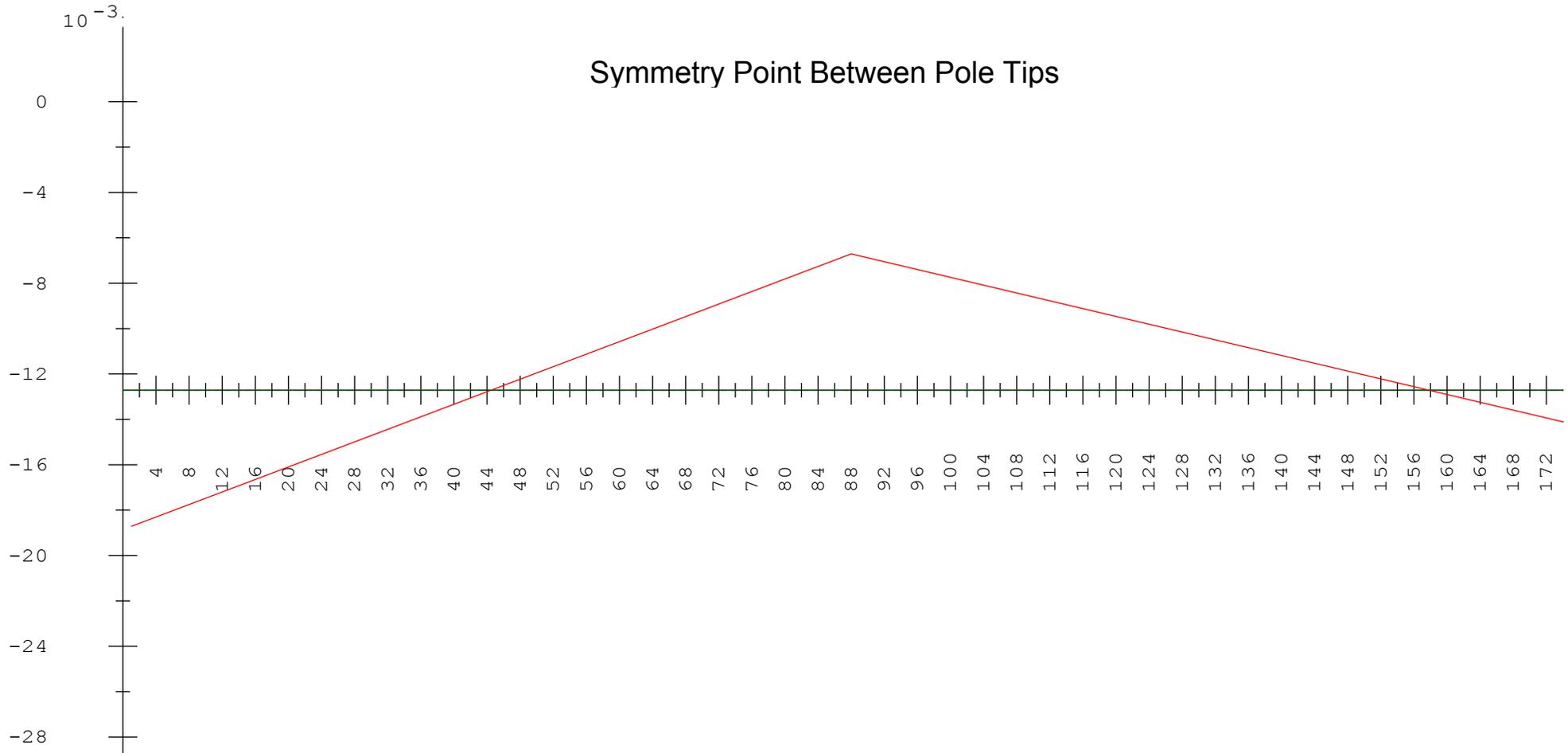NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

13-AUG-2019
S/N =   001
D/S=   0007
Run=   55

Symmetry Point Between Pole Tips

10^{-3}

Vertical axis labels: 0, -4, -8, -12, -16, -20, -24, -28

Horizontal axis labels: 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92, 96, 100, 104, 108, 112, 116, 120, 124, 128, 132, 136, 140, 144, 148, 152, 156, 160, 164, 168, 172

Mean Symmetry Value =   -0.0127

Step Between Measured Pole Tips =   87

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

13-AUG-2019
S/N =   001
D/S=   0007
Run=   55

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	4.9834	4.9846	4.9876	4.9888
Bottom	-5.0144	-5.0135	-5.0114	-5.0105
Gap	9.9977			9.9993
Taper				0.0016

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9841	-5.0096	9.9937	-0.0127

Additional Calculated Values

Bottom Pole #1 Z Value	980.086
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.981
Reference Block Gap	6.801

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

13-AUG-2019
S/N = 001
D/S= 0007
Run= 55