Top Jaw Pole Tips

Y Dev. from Mean

10^{-3}

Mean TOP =   5.0298   Regression Line Ang. (mrad) =   0.0092

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.967

Y Dev. from Mean

10^{-3}

Mean BTM =   -4.9923   Regression Line Ang. (mrad) =   0.0133

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   50
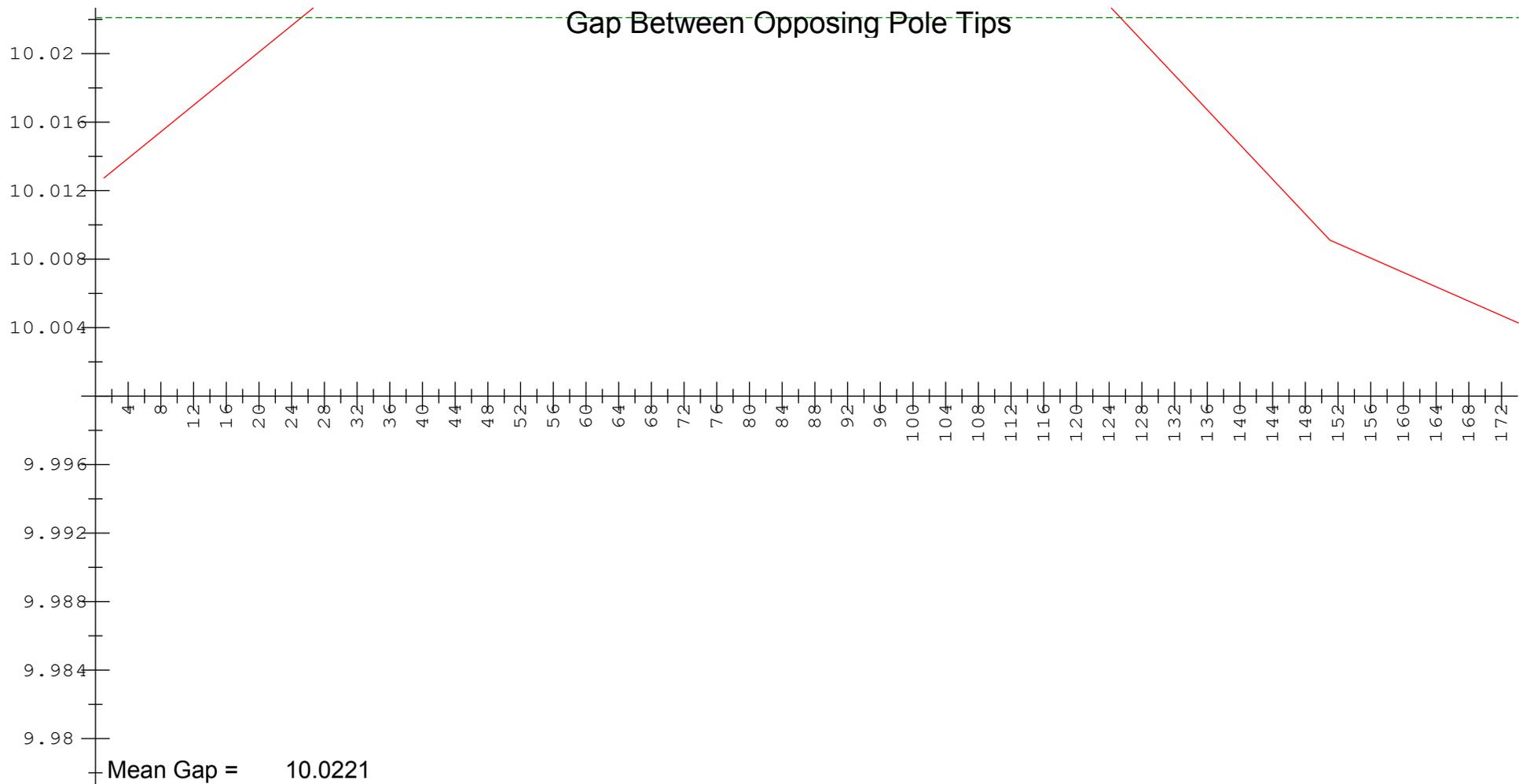
Regression Line Through Points =
Dimensions in mm

Gap Between Opposing Pole Tips

10.02

10.016

10.012

10.008

10.004

9.996

9.992

9.988

9.984

9.98

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 Gap =   10.0221

Step Between Measured Pole Tips =   50

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0001   US Encoder = 10.0002   DS Encoder = 10.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

15-MAR-2019
S/N =   022
D/S=   0001
Run=   2

Symmetry Point Between Pole Tips

10^{-3}.

Mean Symmetry Value =   0.0188

Step Between Measured Pole Tips =   50

Dimensions in mm

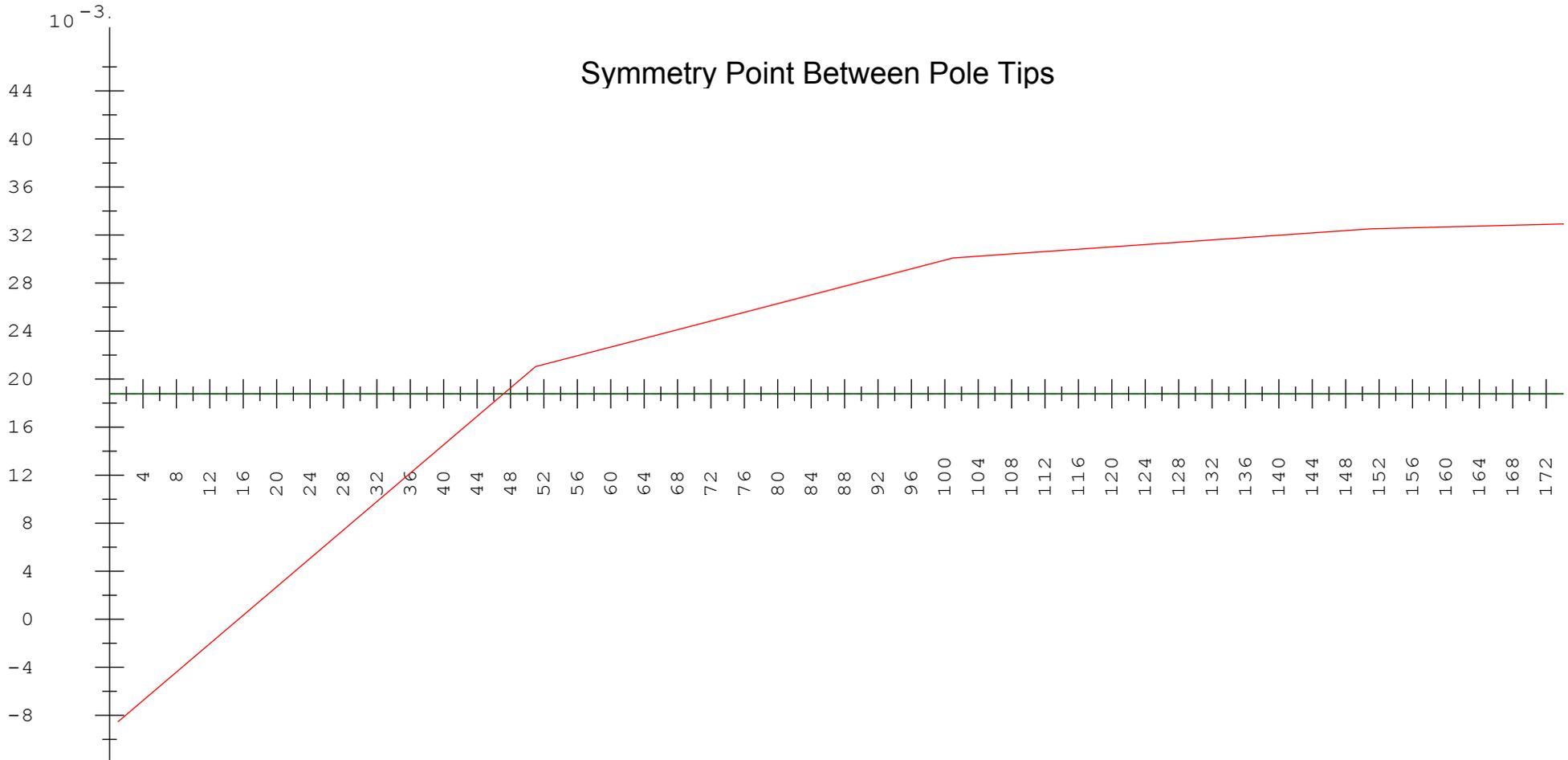| **SLAC** NATIONAL ACCELERATOR LABORATORY METROLOGY | **LCLS II - SXR Undulator** Nominal Gap = 10   Nominal Taper = 0.000 Gap Reading = 10.0001   US Encoder = 10.0002   DS Encoder = 10.0000 | 15-MAR-2019 S/N =   022 D/S=   0001 Run=   2 |

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	5.0140	5.0208	5.0379	5.0449
Bottom	-5.0121	-5.0023	-4.9775	-4.9674
Gap	10.0261			10.0123
Taper				-0.0138

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0298	-4.9923	10.0221	0.0188

Additional Calculated Values

Bottom Pole #1 Z Value	980.569
Top Jaw Pitch (mrad)	0.009
Bottom Jaw Pitch(mrad)	0.013
Minimum Effective Gap	9.967
Reference Block Gap	6.809

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0001   US Encoder = 10.0002   DS Encoder = 10.0000

15-MAR-2019
S/N = 022
D/S = 0001
Run= 2