Top Jaw Pole Tips

Y Dev. from Mean

10^{-3}

Mean TOP =   10.9938   Regression Line Ang. (mrad) =   0.0024

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   21.986

Y Dev. from Mean

10^{-3}

Mean BTM =   -11.0065   Regression Line Ang. (mrad) =   0.0016
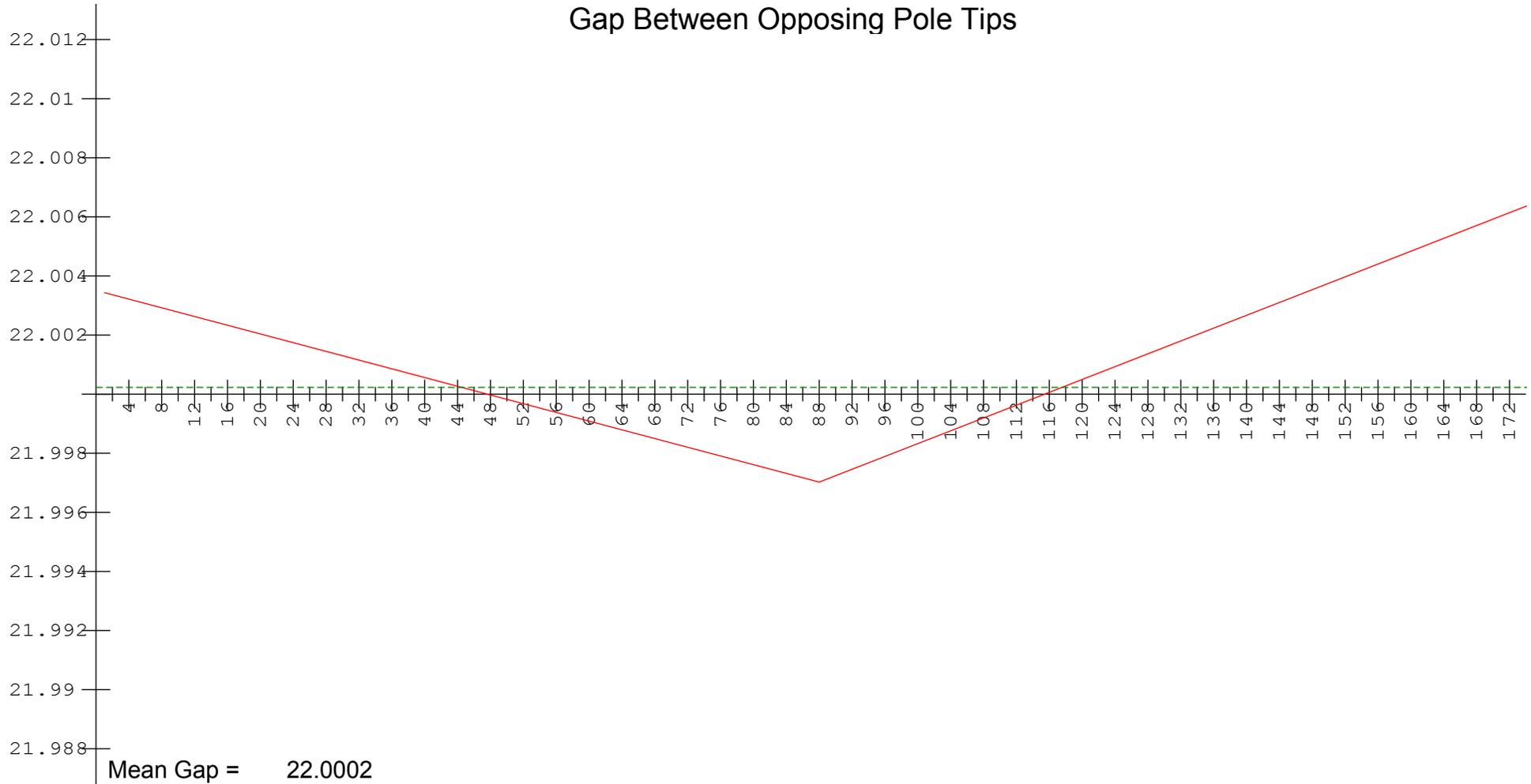
Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   87

Regression Line Through Points =
Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 22   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

12-AUG-2019
S/N =   001
D/S=   0007
Run=   39

Gap Between Opposing Pole Tips

Mean Gap =   22.0002

Step Between Measured Pole Tips =   87
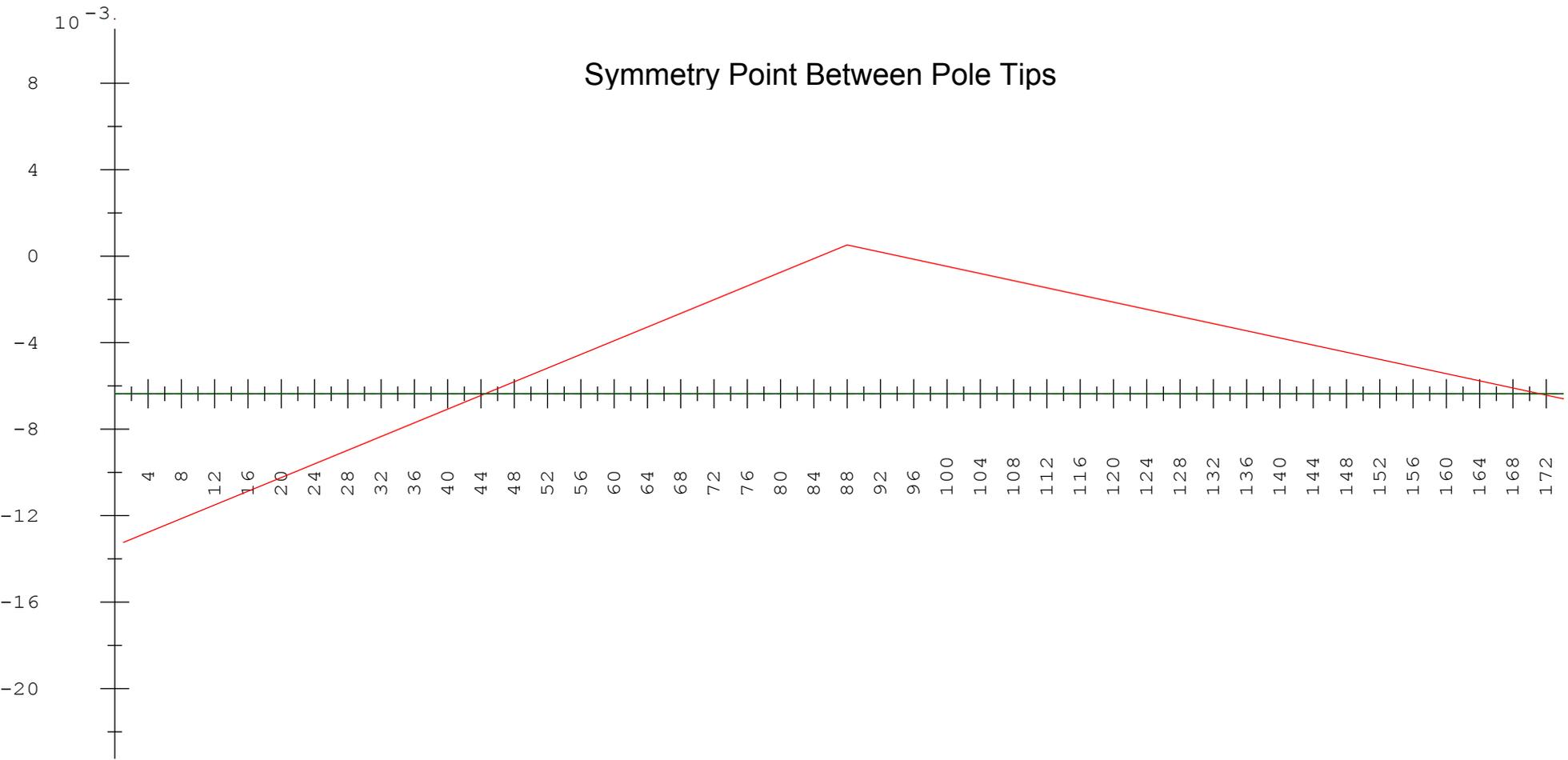
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 22   Nominal Taper = 0.000

Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

12-AUG-2019
S/N =   001
D/S=   0007
Run=   39

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Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0064

Step Between Measured Pole Tips =   87

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | LCLS II - SXR Undulator Nominal Gap = 22   Nominal Taper = 0.000 Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000 | 12-AUG-2019 S/N =   001 D/S=   0007 Run=   39 |

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	10.9906	10.9924	10.9969	10.9988
Bottom	-11.0102	-11.0091	-11.0061	-11.0050
Gap	22.0008			22.0037
Taper				0.0029

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
10.9938	-11.0065	22.0002	-0.0064

Additional Calculated Values

Bottom Pole #1 Z Value	980.086
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	21.986
Reference Block Gap	6.801

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 22   Nominal Taper = 0.000
Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

12-AUG-2019
S/N =   001
D/S=   0007
Run=   39