Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   4.9740   Regression Line Ang. (mrad) =   0.0046

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.976

Y Dev.from Mean

Mean BTM =   -5.0192   Regression Line Ang. (mrad) =   0.0037

Y Value Scales Centered on Mean Values   Regression Line Through Points =————
Step Between Measured Pole Tips =   87   Dimensions in mm

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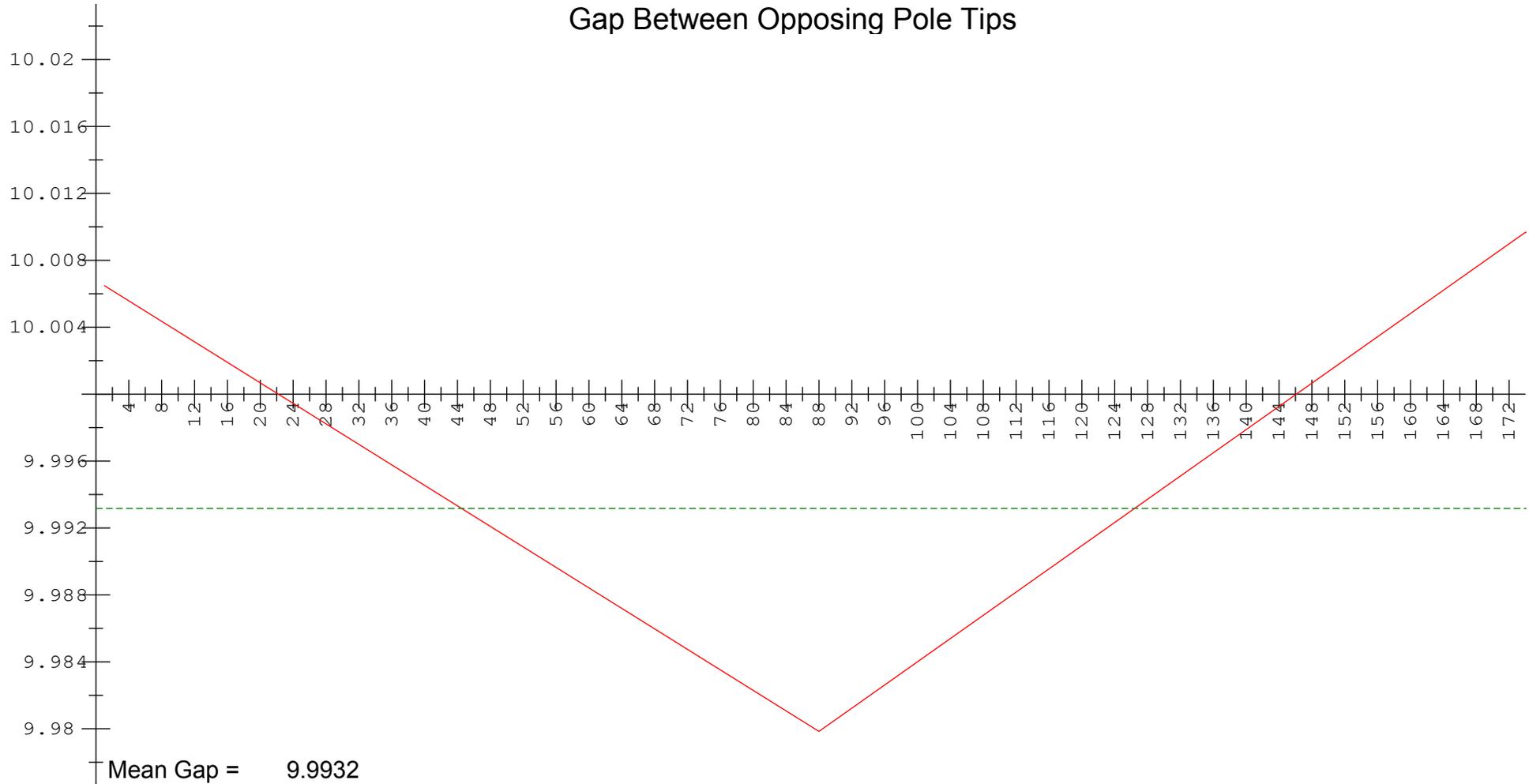Gap Reading = 0.0000   US Encoder = 0.0000   DS Encoder = 0.0000

12-AUG-2019
S/N =   001
D/S=   0007
Run=   50

Gap Between Opposing Pole Tips

Mean Gap =   9.9932

Step Between Measured Pole Tips =   87
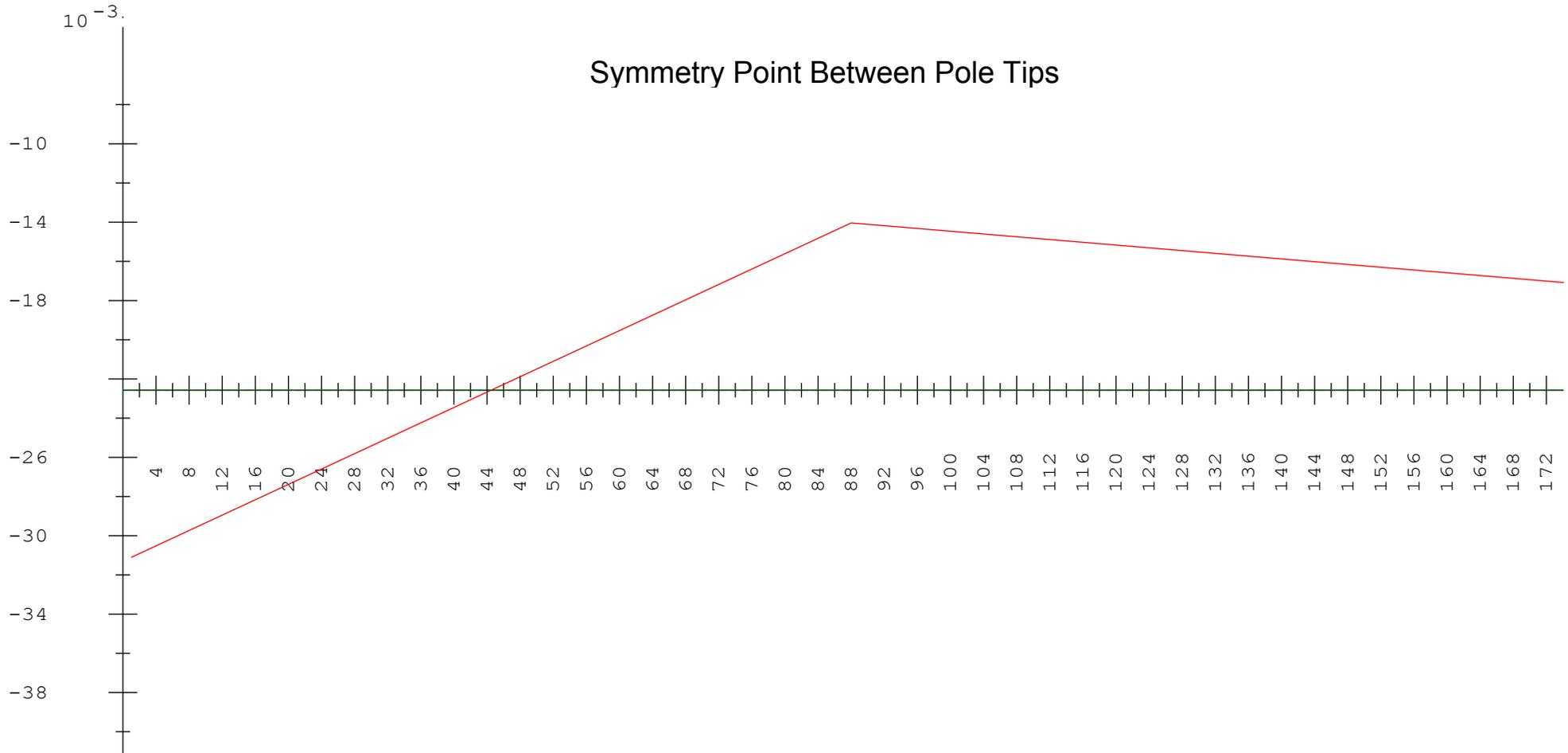
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

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

12-AUG-2019
S/N =   001
D/S=   0007
Run=   50

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0226

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	12-AUG-2019 S/N = 001 D/S= 0007 Run= 50

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	4.9708	4.9742	4.9829	4.9864
Bottom	-5.0264	-5.0236	-5.0166	-5.0138
Gap	9.9971			10.0002
Taper				0.0031

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9740	-5.0192	9.9932	-0.0226

Additional Calculated Values

Bottom Pole #1 Z Value	980.086
Top Jaw Pitch (mrad)	0.005
Bottom Jaw Pitch(mrad)	0.004
Minimum Effective Gap	9.976
Reference Block Gap	6.801

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

12-AUG-2019
S/N = 001
D/S= 0007
Run= 50