Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Pole Tip Num. ---->

Mean TOP =   5.0640   Regression Line Ang. (mrad) =   0.0114

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.953

10^{-3}

Y Dev. from Mean

Mean BTM =   -4.9849   Regression Line Ang. (mrad) =   -0.0175

Y Value Scales Centered on Mean Values
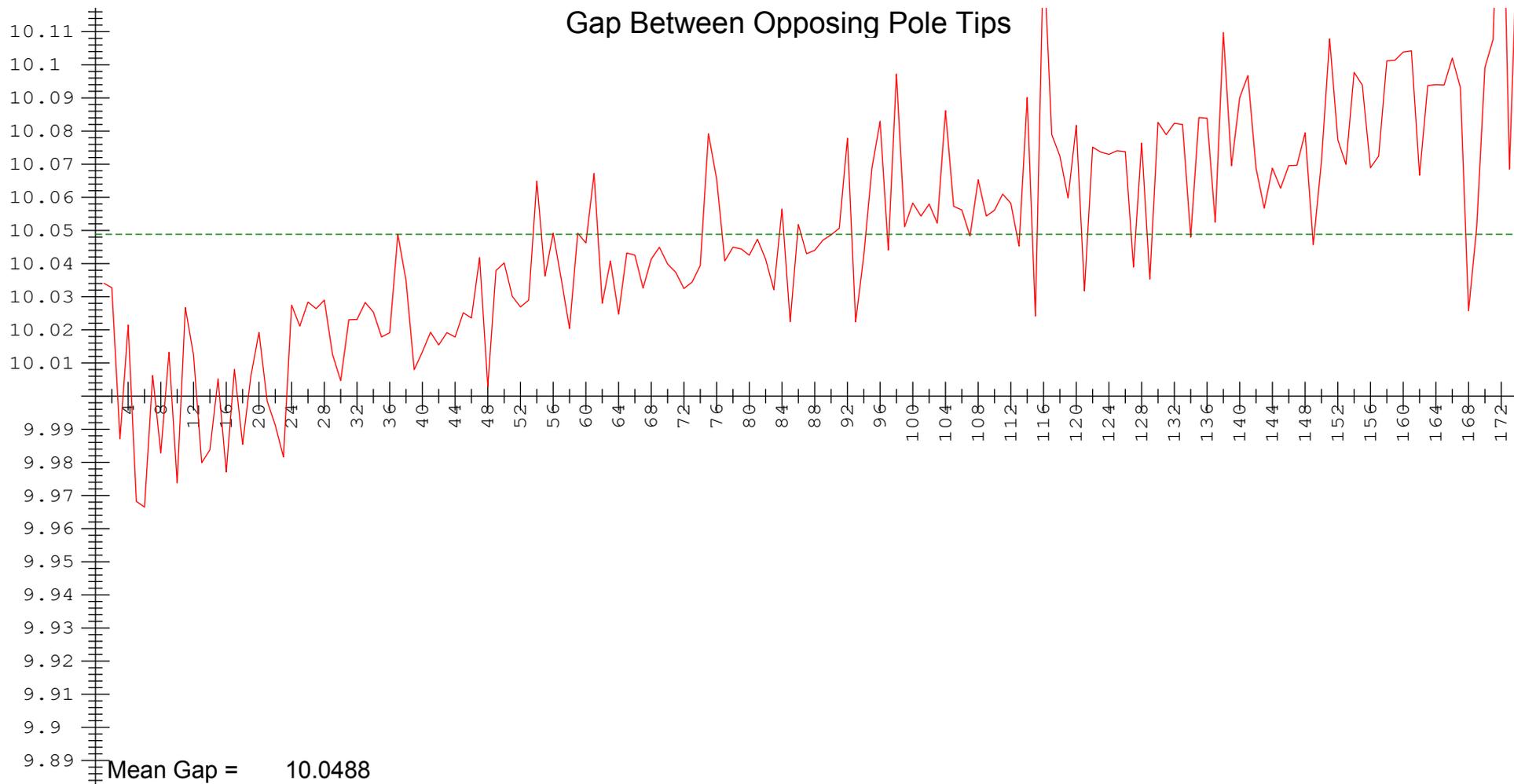Step Between Measured Pole Tips =   1

Regression Line Through Points =_____

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

Gap Reading = 9.9479   US Encoder = 9.9986   DS Encoder = 9.8971

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

07-MAY-2018
S/N =   009
D/S=   0001
Run=   20

Gap Between Opposing Pole Tips

Mean Gap = 10.0488

Step Between Measured Pole Tips = 1
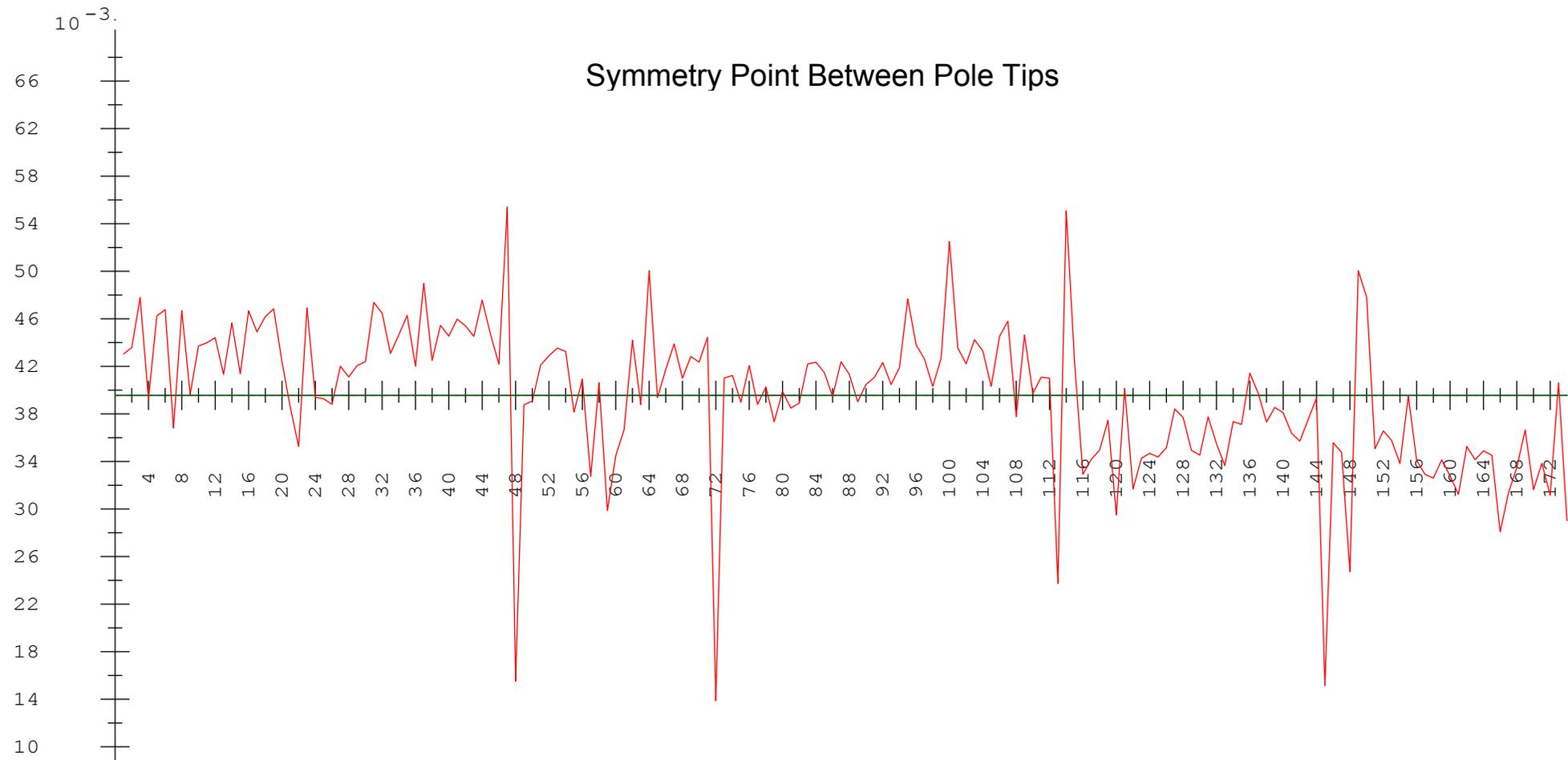
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

Gap Reading = 9.9479   US Encoder = 9.9986   DS Encoder = 9.8971

07-MAY-2018
S/N = 009
D/S = 0001
Run = 20

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0396

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.100

Gap Reading = 9.9479   US Encoder = 9.9986   DS Encoder = 9.8971

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

07-MAY-2018
S/N =   009
D/S=   0001
Run=   20

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	5.0447	5.0532	5.0745	5.0832
Bottom	-4.9553	-4.9683	-5.0011	-5.0144
Gap	10.0001			10.0976
Taper				0.0975

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0640	-4.9849	10.0488	0.0396

Additional Calculated Values

Bottom Pole #1 Z Value	979.386
Top Jaw Pitch (mrad)	0.011
Bottom Jaw Pitch(mrad)	-0.017
Minimum Effective Gap	9.953
Reference Block Gap	6.806

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.100
Gap Reading = 9.9479   US Encoder = 9.9986   DS Encoder = 9.8971

07-MAY-2018
S/N = 009
D/S= 0001
Run= 20