Top Jaw Pole Tips

Y Value

Mean TOP =   5.6044   Regression Line Ang. (mrad) =   0.0005

Pole Tip Num. ---->

Minimum Effective Gap =   10.973

Bottom Jaw Pole Tips

Y Value

Mean BTM =   -5.3974   Regression Line Ang. (mrad) =   0.0106

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   10

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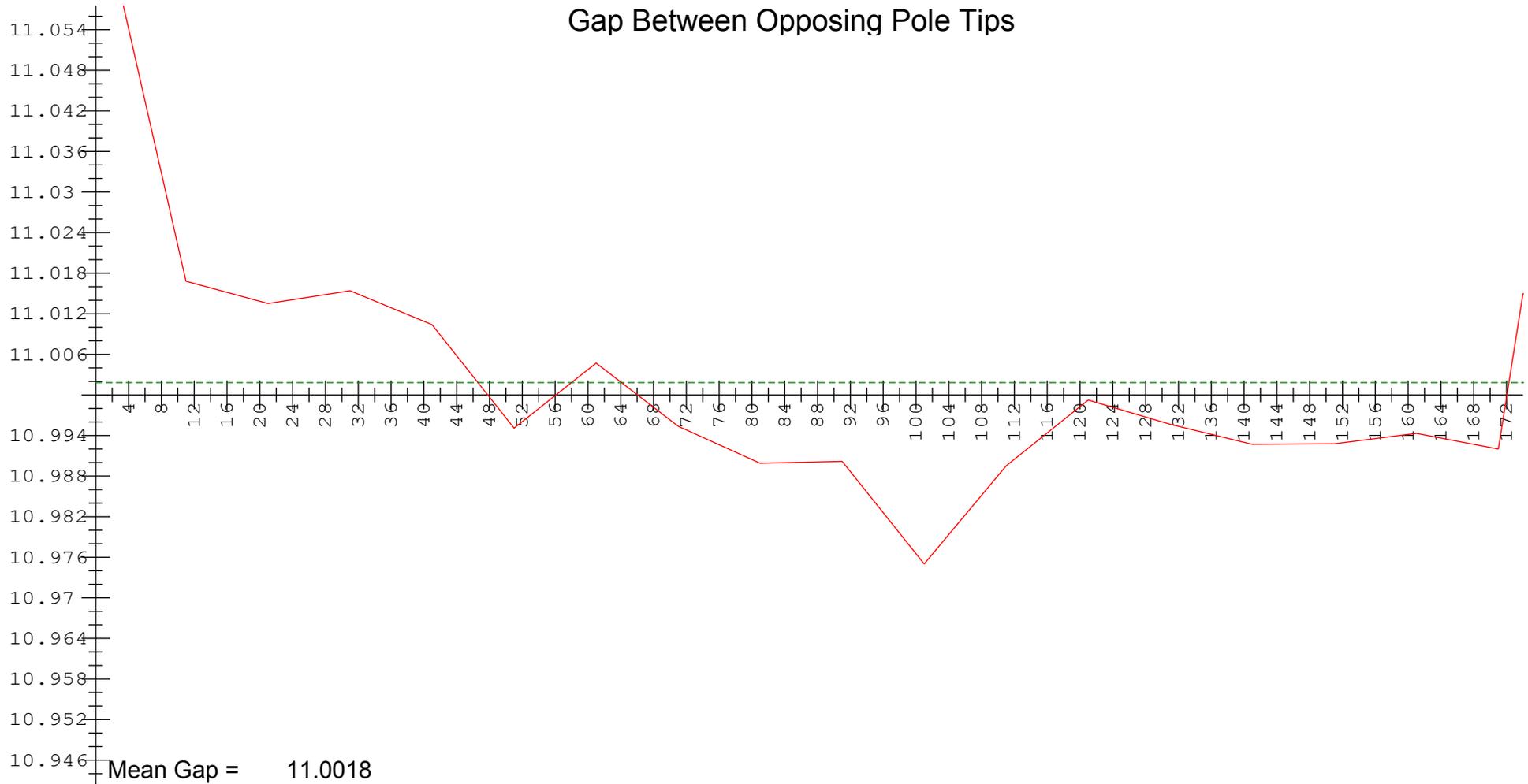Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 11   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-MAR-2018
S/N =   008
D/S=   0001
Run=   9

Gap Between Opposing Pole Tips

Mean Gap =   11.0018

Step Between Measured Pole Tips =   10
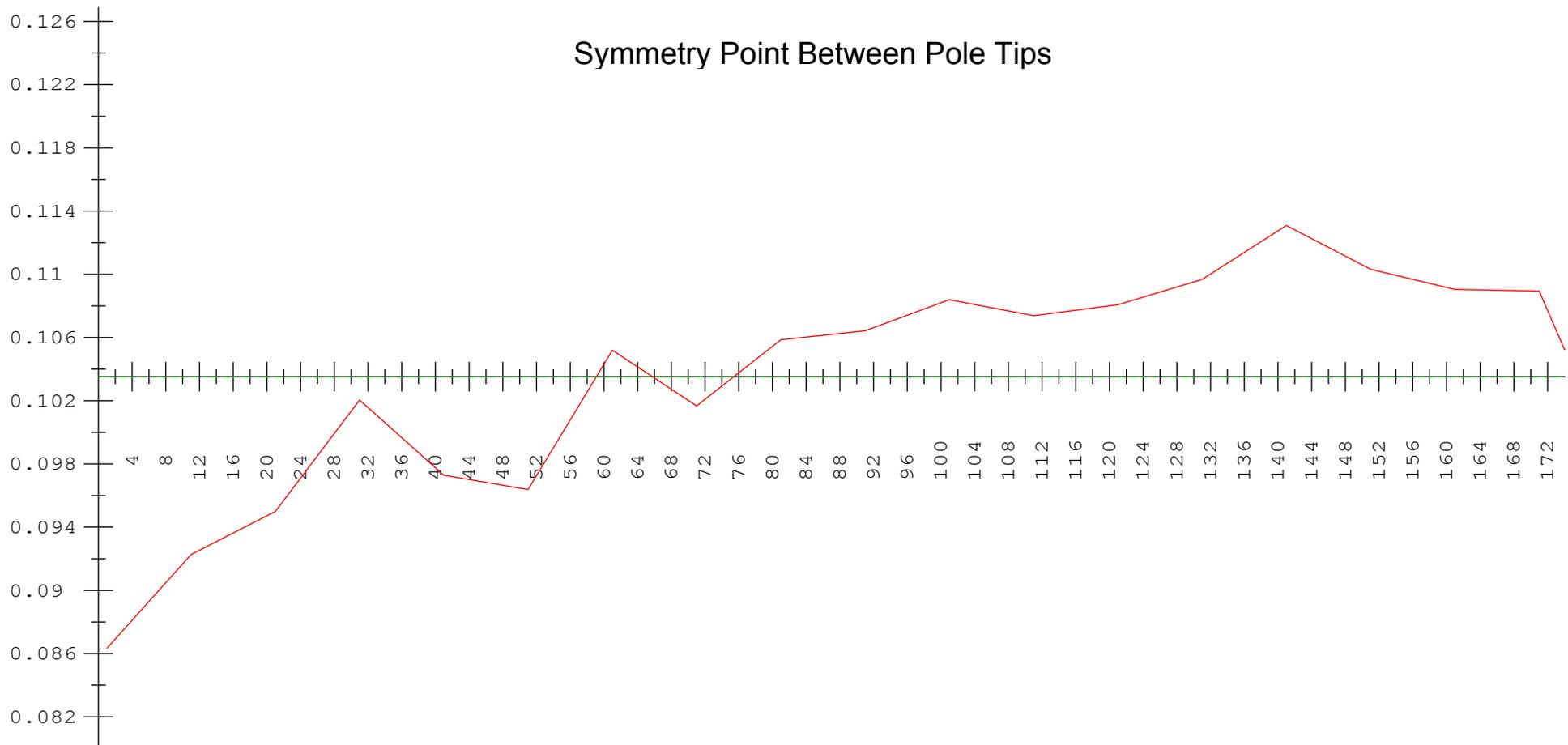
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

29-MAR-2018
S/N =   008
D/S=   0001
Run=   9

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1035

Step Between Measured Pole Tips =   10

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	LCLS II - SXR Undulator	29-MAR-2018
	Nominal Gap = 11 Nominal Taper = 0	S/N = 008
	Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000	D/S= 0001
		Run= 9

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	5.6040	5.6044	5.6053	5.6057
Bottom	-5.4162	-5.4084	-5.3884	-5.3804
Gap	11.0202			10.9860
Taper				-0.0342

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.6044	-5.3974	11.0018	0.1035

Additional Calculated Values

Bottom Pole #1 Z Value	979.390
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	0.011
Minimum Effective Gap	10.973
Reference Block Gap	6.803

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

SLAC

NATIONAL ACCELERATOR LABORATORY

METROLOGY

29-MAR-2018
S/N =   008
D/S=   0001
Run=   9