Top Jaw Pole Tips

Mean TOP =   5.1069   Regression Line Ang. (mrad) =   -0.0124

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.907

Mean BTM =   -4.8419   Regression Line Ang. (mrad) =   0.0122
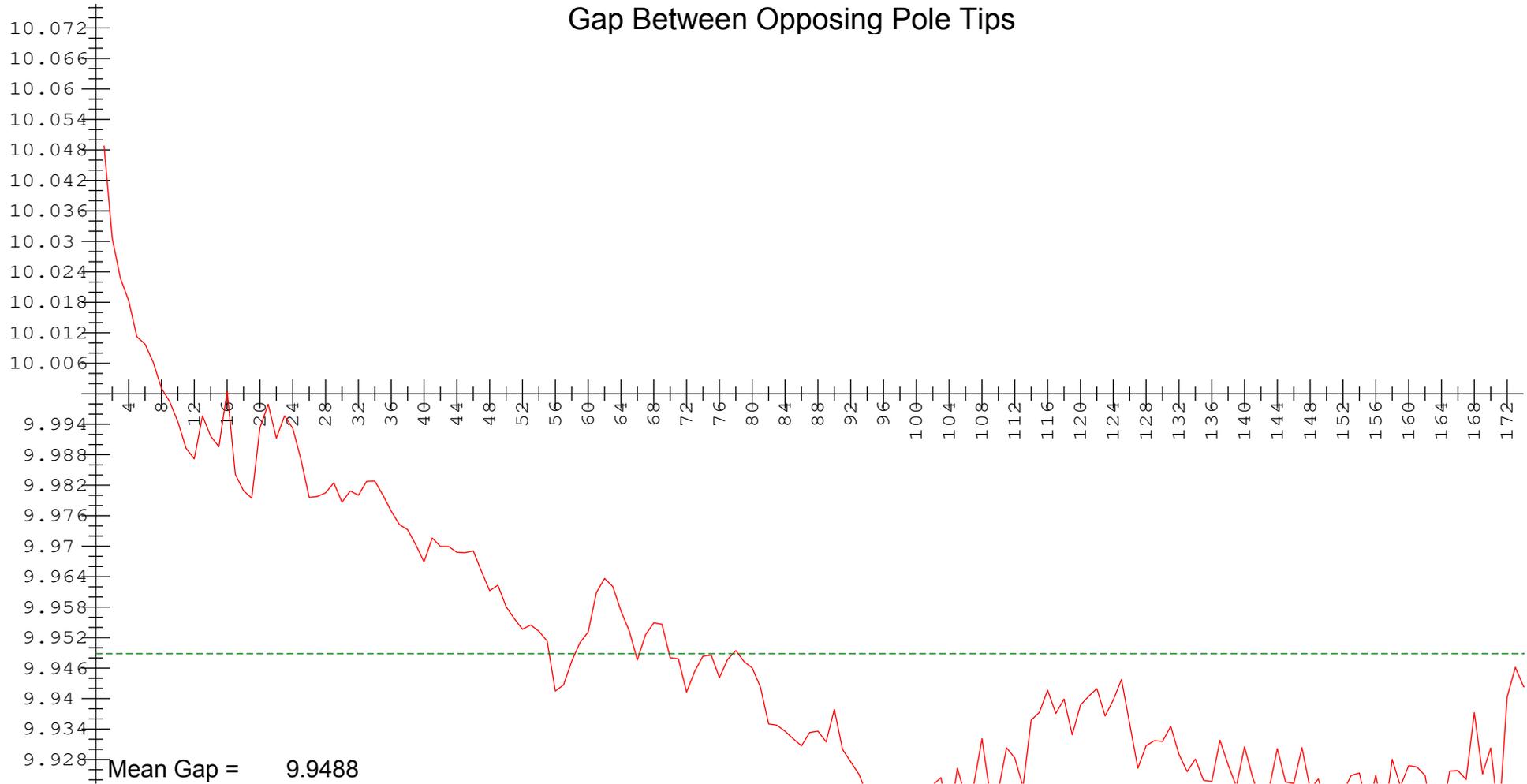
Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   1

Regression Line Through Points =
Dimensions in mm
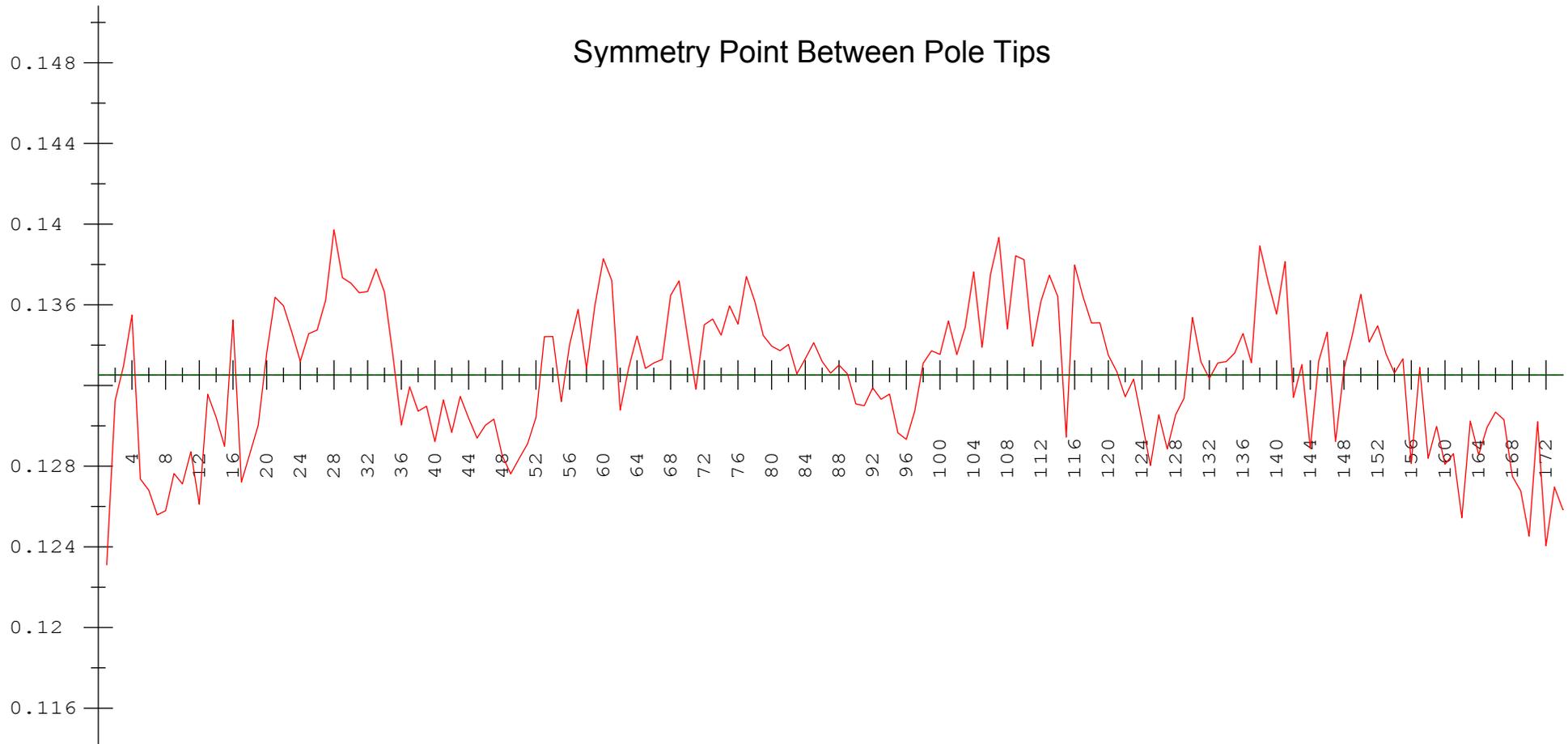

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0

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

28-MAR-2018
S/N =   008
D/S=   0001
Run=   1

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METROLOGY

Gap Between Opposing Pole Tips

Mean Gap = 9.9488

Step Between Measured Pole Tips = 1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0

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

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METROLOGY

28-MAR-2018
S/N = 008
D/S= 0001
Run= 1

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1325

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	LCLS II - SXR Undulator	28-MAR-2018
	Nominal Gap = 10 Nominal Taper = 0	S/N = 008
	Gap Reading = 10.0000 US Encoder = 10.0000 DS Encoder = 10.0000	D/S= 0001 Run= 1

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	5.1279	5.1187	5.0954	5.0860
Bottom	-4.8625	-4.8535	-4.8306	-4.8213
Gap	9.9904			9.9072
Taper				-0.0832

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1069	-4.8419	9.9488	0.1325

Additional Calculated Values

Bottom Pole #1 Z Value	979.390
Top Jaw Pitch (mrad)	-0.012
Bottom Jaw Pitch(mrad)	0.012
Minimum Effective Gap	9.907
Reference Block Gap	6.803

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

28-MAR-2018
S/N = 008
D/S = 0001
Run = 1