Top Jaw Pole Tips

Mean TOP = 6.6134   Regression Line Ang. (mrad) = 0.0031

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 12.973

Mean BTM = -6.3899   Regression Line Ang. (mrad) = 0.0067

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

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

SLAC
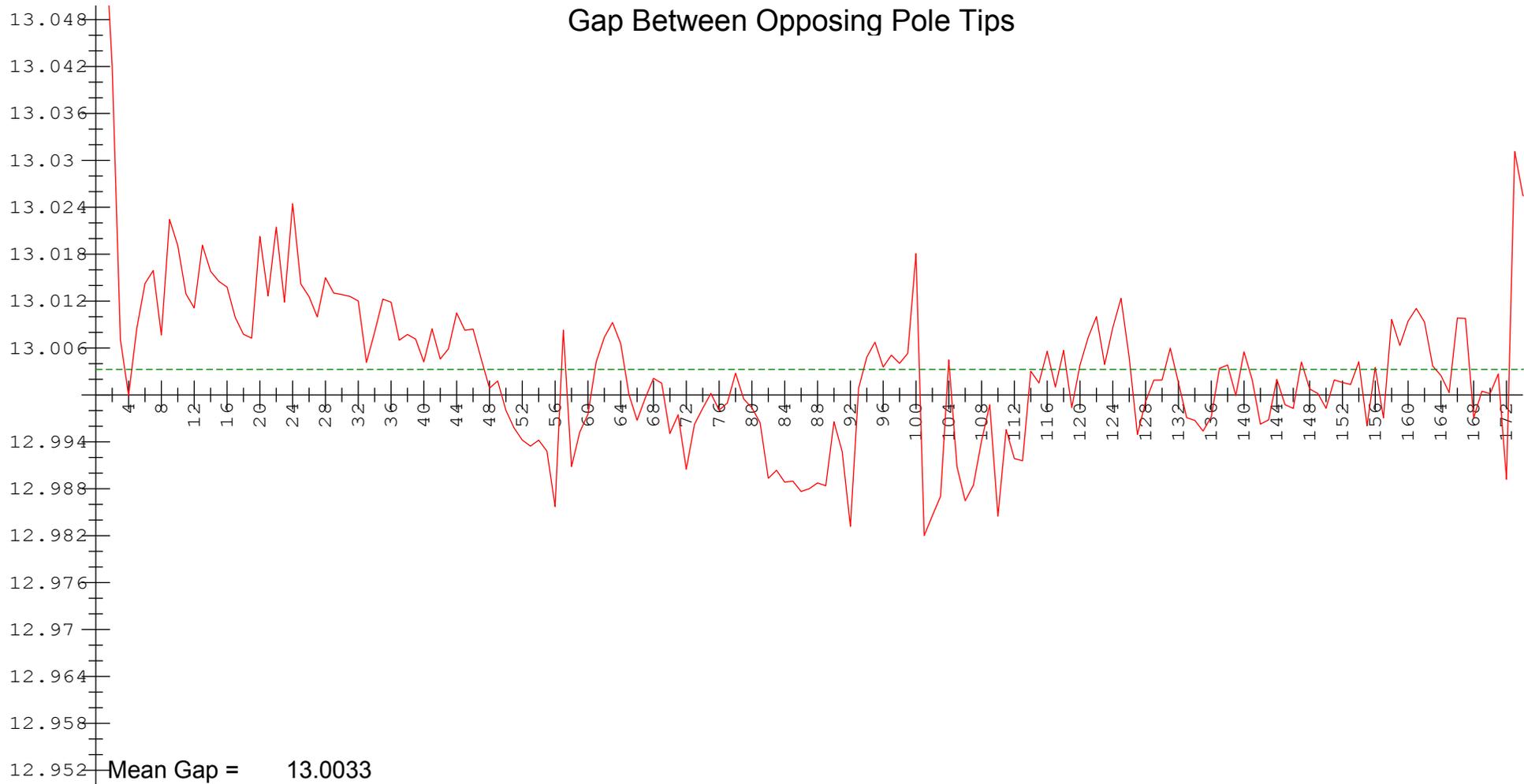NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

30-MAR-2018
S/N = 008
D/S= 0001
Run= 14

Gap Between Opposing Pole Tips

Mean Gap =   13.0033

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

30-MAR-2018
S/N =   008
D/S=   0001
Run=   14

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1117

Step Between Measured Pole Tips =   1
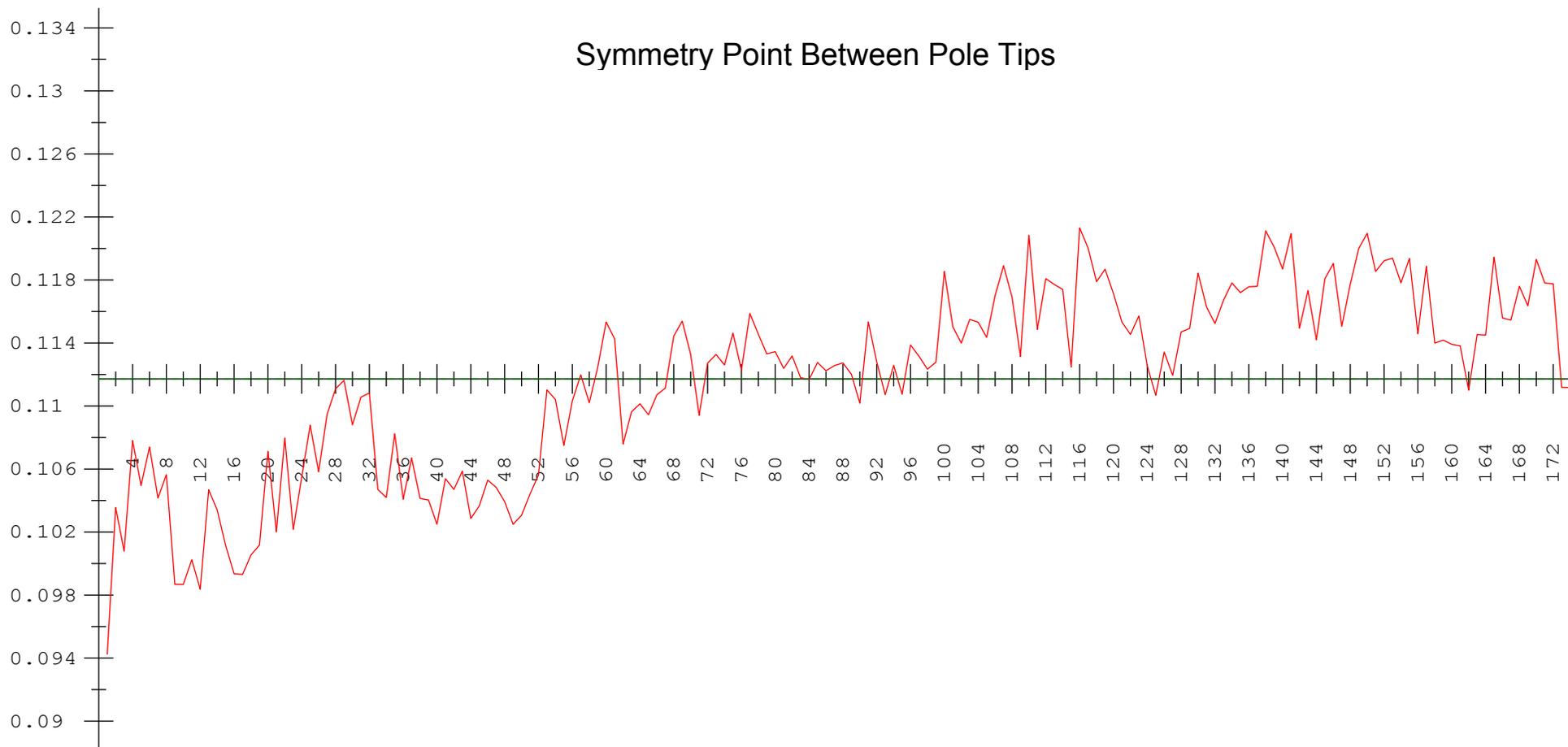
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 13   Nominal Taper = 0

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

30-MAR-2018
S/N =   008
D/S=   0001
Run=   14

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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	6.6081	6.6104	6.6163	6.6187
Bottom	-6.4012	-6.3962	-6.3837	-6.3787
Gap	13.0092			12.9973
Taper				-0.0119

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.6134	-6.3899	13.0033	0.1117

Additional Calculated Values

Bottom Pole #1 Z Value	979.390
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	0.007
Minimum Effective Gap	12.973
Reference Block Gap	6.803

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

30-MAR-2018
S/N = 008
D/S= 0001
Run= 14