Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   6.2071   Regression Line Ang. (mrad) =   -0.0016

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   11.967

Y Dev.from Mean

Mean BTM =   -5.8042   Regression Line Ang. (mrad) =   0.0003

Y Value Scales Centered on Mean Values   Regression Line Through Points =
Step Between Measured Pole Tips =   7   Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 12   Nominal Taper = 0.000

Gap Reading = 12.0000   US Encoder = 12.0000   DS Encoder = 12.0000

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METROLOGY

18-DEC-2018
S/N =   018
D/S=   0001
Run=   7

Gap Between Opposing Pole Tips

Mean Gap =   12.0114

Step Between Measured Pole Tips =   7

Dimensions in mm

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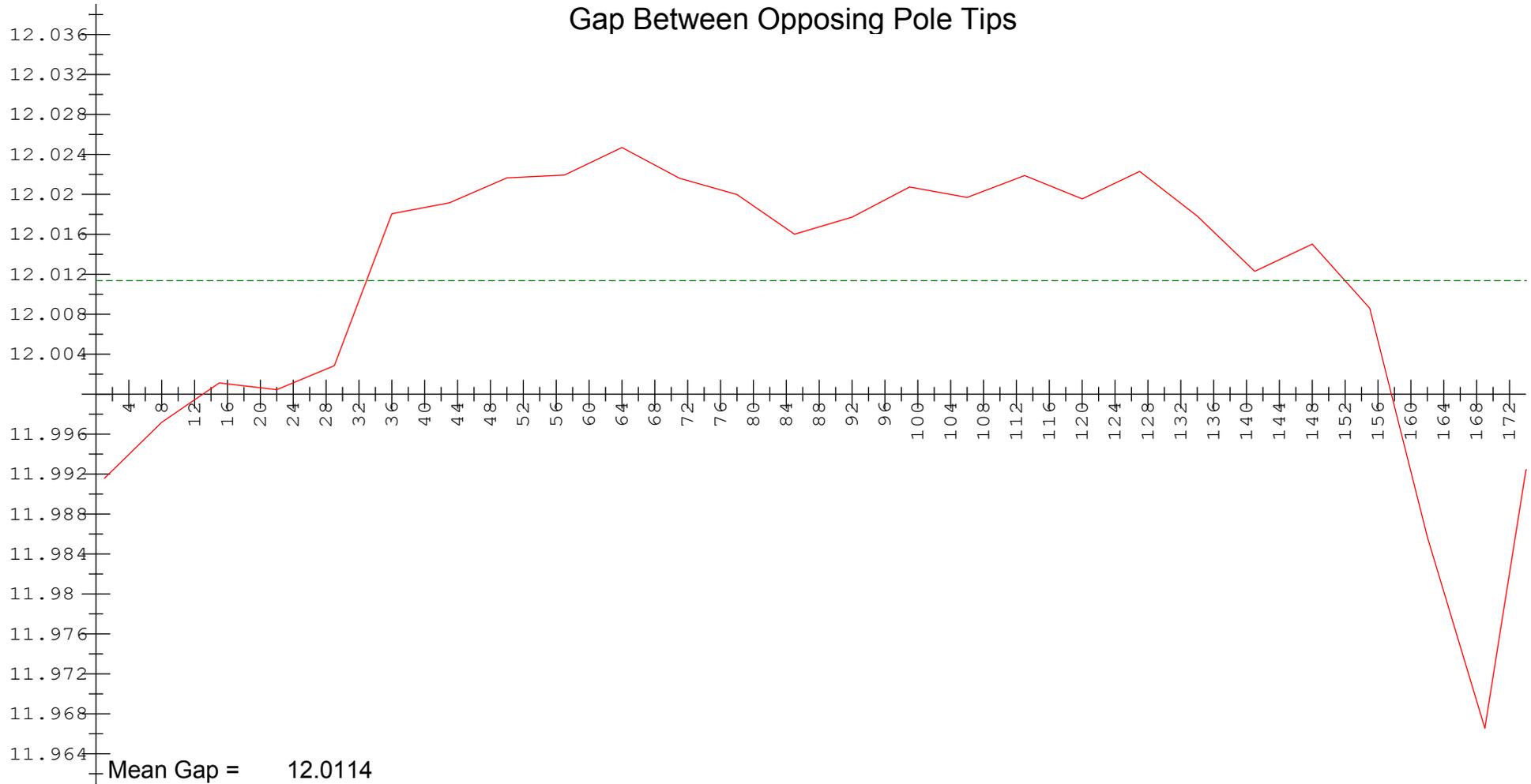**METROLOGY**

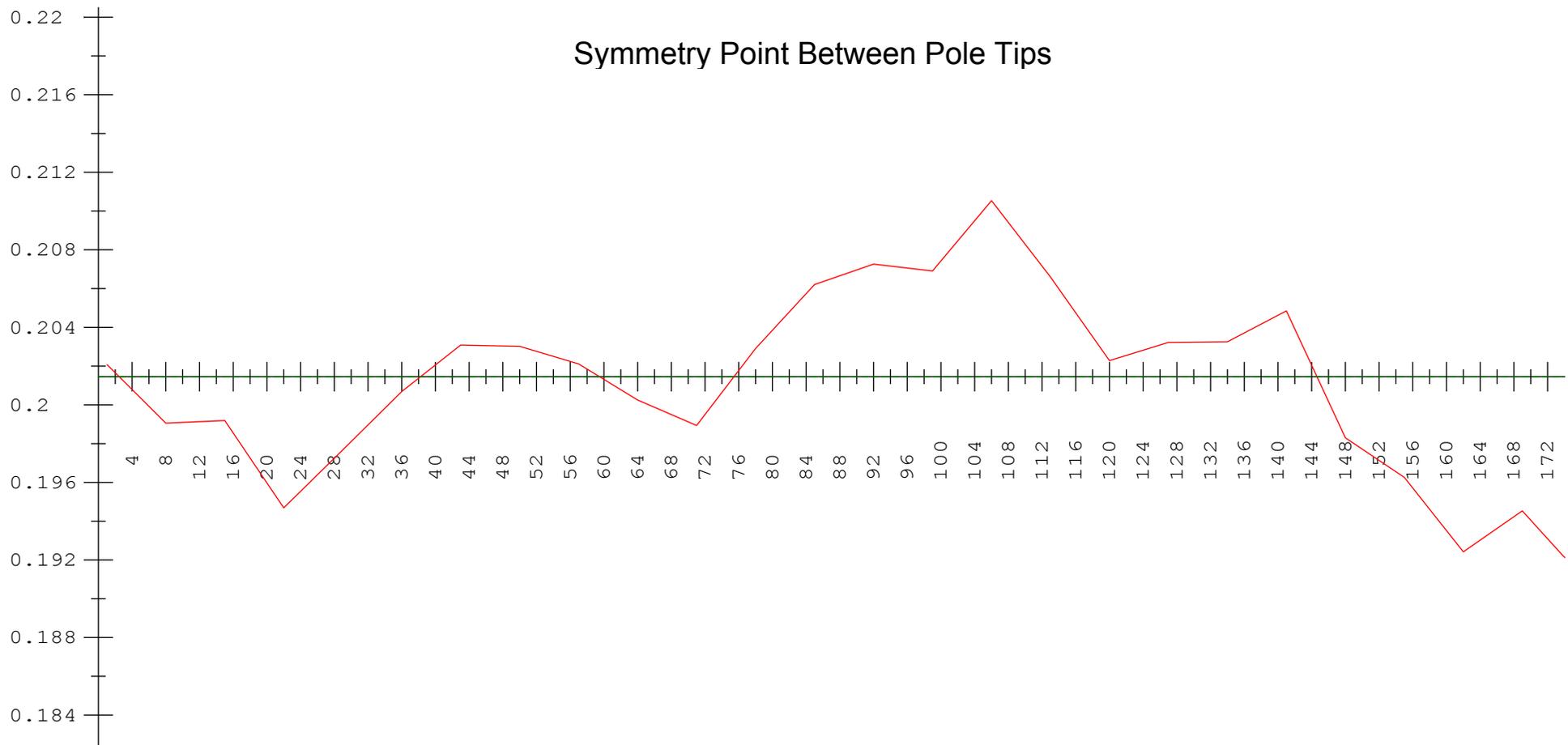**LCLS II - SXR Undulator**
Nominal Gap = 12   Nominal Taper = 0.000
Gap Reading = 12.0000   US Encoder = 12.0000   DS Encoder = 12.0000

18-DEC-2018
S/N =   018
D/S=   0001
Run=   7

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2015

Step Between Measured Pole Tips =   7

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	LCLS II - SXR Undulator	18-DEC-2018
	Nominal Gap = 12 Nominal Taper = 0.000	S/N = 018
	Gap Reading = 12.0000 US Encoder = 12.0000 DS Encoder = 12.0000	D/S= 0001
		Run= 7

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	6.2092	6.2080	6.2049	6.2037
Bottom	-5.8048	-5.8045	-5.8039	-5.8037
Gap	12.0140			12.0074
Taper				-0.0066

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.2071	-5.8042	12.0114	0.2015

Additional Calculated Values

Bottom Pole #1 Z Value	980.178
Top Jaw Pitch (mrad)	-0.002
Bottom Jaw Pitch(mrad)	0.000
Minimum Effective Gap	11.967
Reference Block Gap	6.806

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 12   Nominal Taper = 0.000
Gap Reading = 12.0000   US Encoder = 12.0000   DS Encoder = 12.0000

18-DEC-2018
S/N = 018
D/S = 0001
Run= 7