Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 5.5506   Regression Line Ang. (mrad) =   -0.0015

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   10.828

Y Dev.from Mean

Mean BTM =   -5.3700   Regression Line Ang. (mrad) =   0.0056

Y Value Scales Centered on Mean Values

Regression Line Through Points =

Step Between Measured Pole Tips =   7

Dimensions in mm

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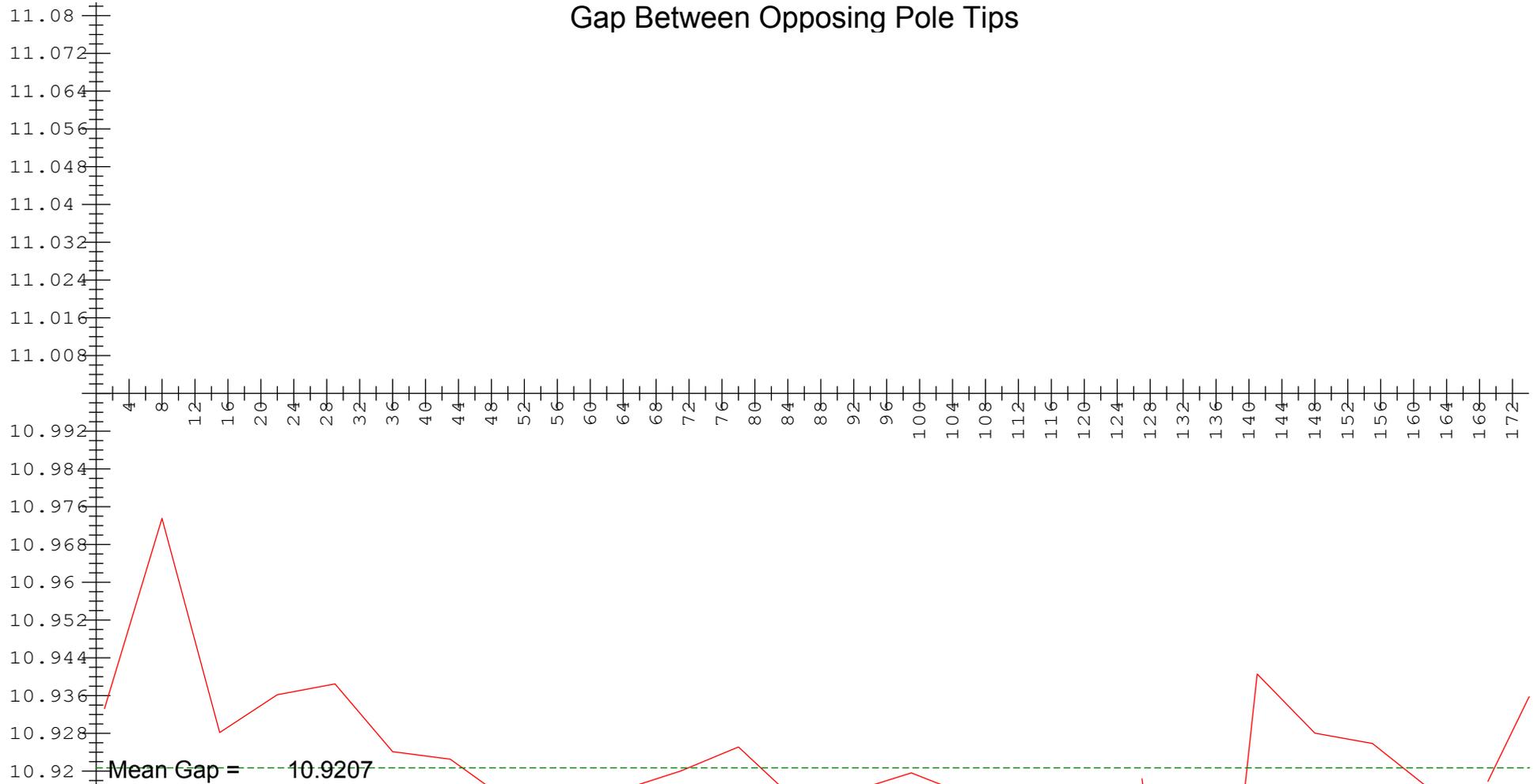**METROLOGY**

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0001

13-SEP-2018
S/N =   001
D/S=   0004
Run=   5

Gap Between Opposing Pole Tips

Mean Gap = 10.9207
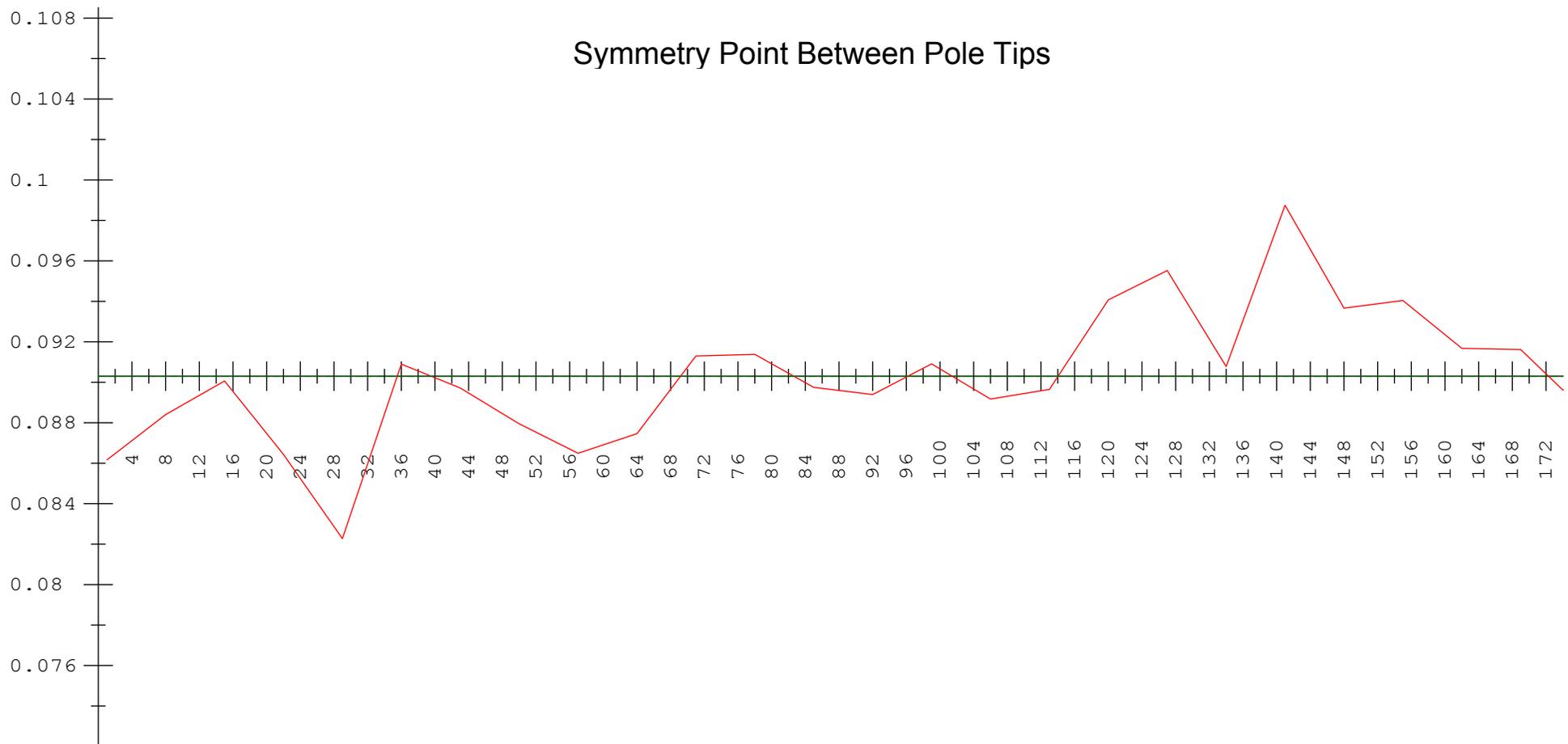
Step Between Measured Pole Tips = 7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0001

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METROLOGY

13-SEP-2018
S/N =   001
D/S=   0004
Run=   5

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0903

Step Between Measured Pole Tips =   7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 11   Nominal Taper = 0.000

Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0001

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METROLOGY

13-SEP-2018
S/N =   001
D/S=   0004
Run=   5

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	5.5534	5.5523	5.5496	5.5485
Bottom	-5.3799	-5.3757	-5.3653	-5.3610
Gap	10.9333			10.9095
Taper				-0.0238

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.5506	-5.3700	10.9207	0.0903

Additional Calculated Values

Bottom Pole #1 Z Value	979.975
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.006
Minimum Effective Gap	10.828
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 11   Nominal Taper = 0.000
Gap Reading = 11.0000   US Encoder = 11.0000   DS Encoder = 11.0001

13-SEP-2018
S/N =   001
D/S=   0004
Run=   5