Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   5.0898   Regression Line Ang. (mrad) =   0.0015

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.976

Y Dev.from Mean

Mean BTM =   -4.9194   Regression Line Ang. (mrad) =   0.0017

Y Value Scales Centered on Mean Values   Regression Line Through Points =
Step Between Measured Pole Tips =   1

Dimensions in mm

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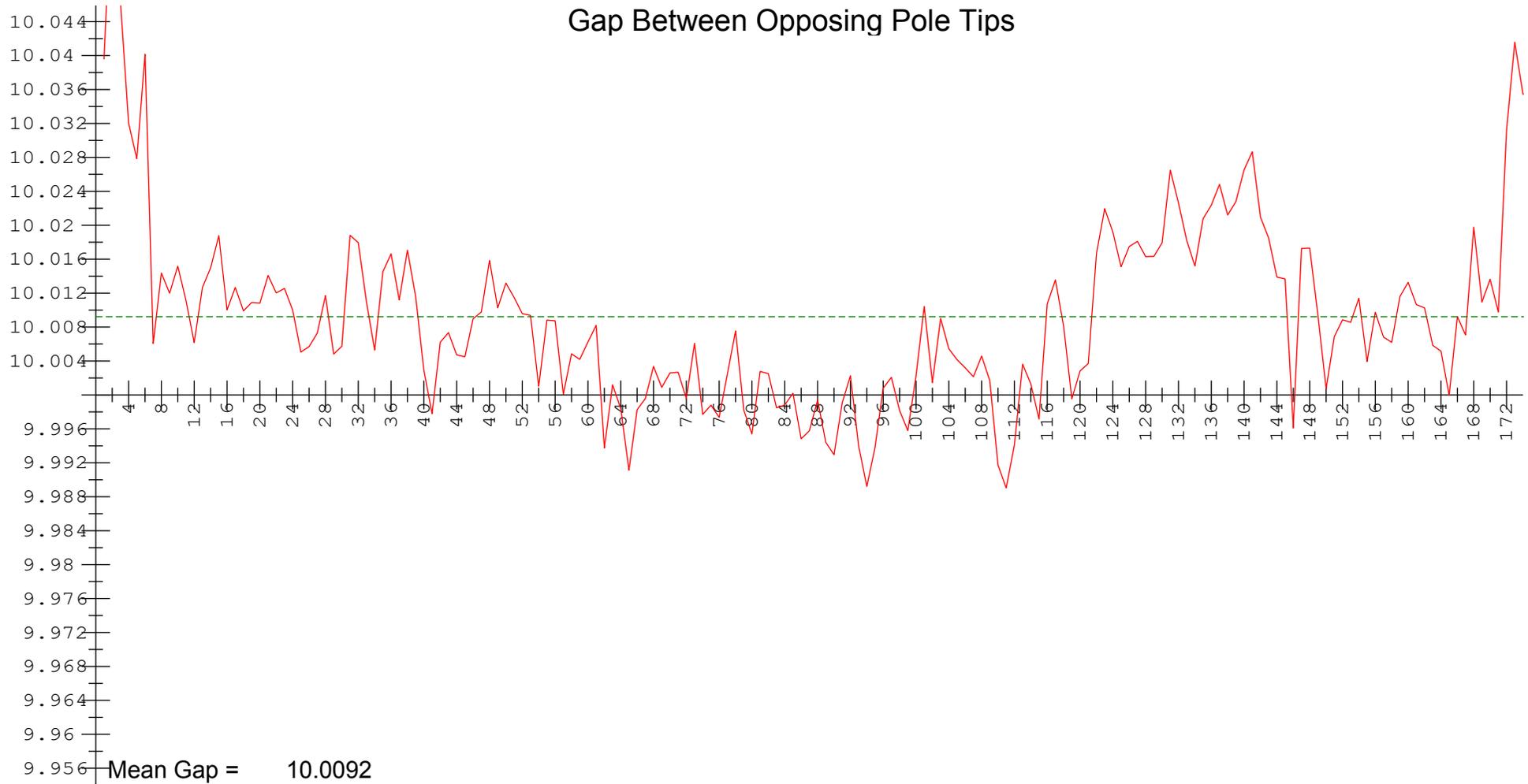METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0001   DS Encoder = 10.0000

16-MAY-2018
S/N =   010
D/S=   0001
Run=   4

Gap Between Opposing Pole Tips

Mean Gap =   10.0092

Step Between Measured Pole Tips =   1

Dimensions in mm

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METROLOGY

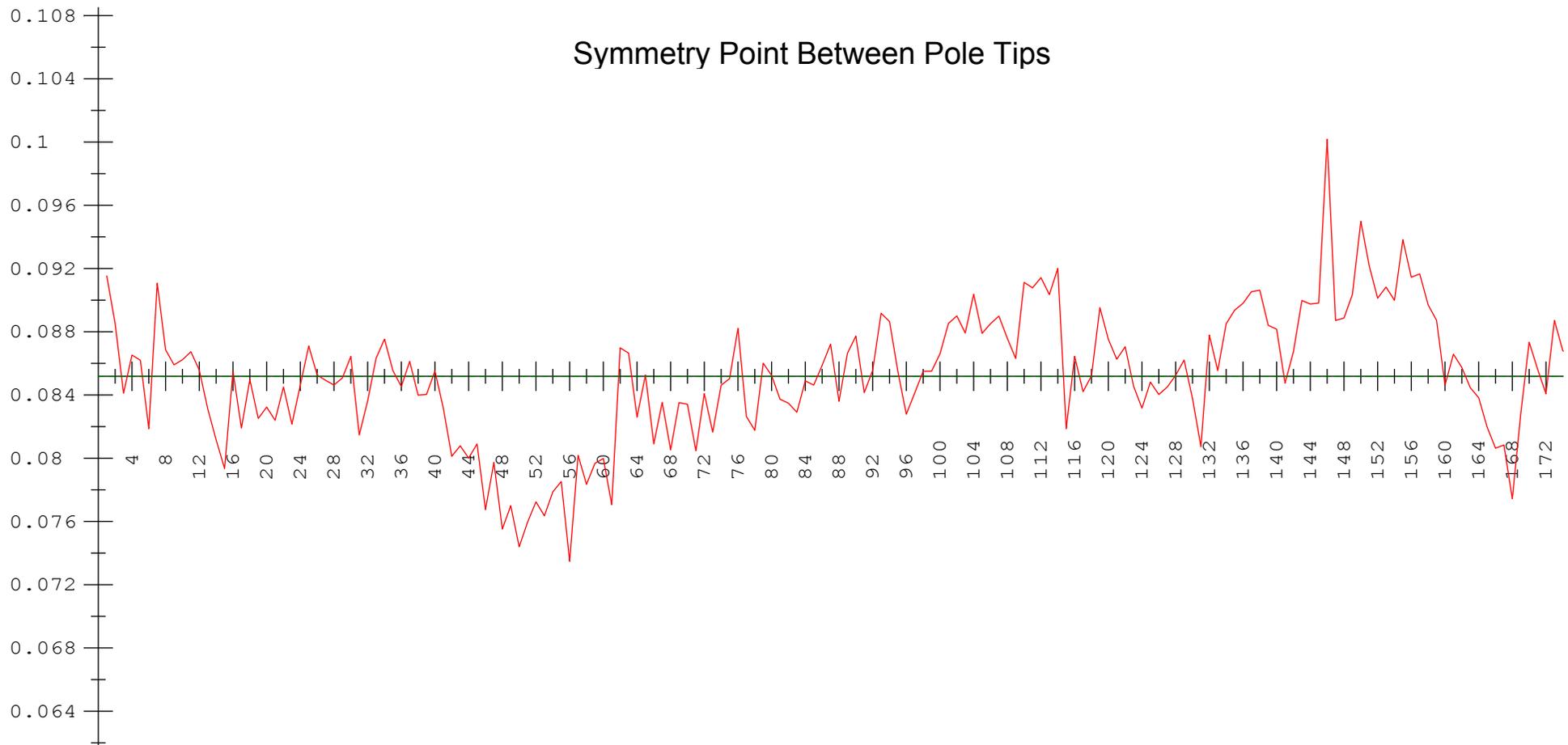## LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0001   DS Encoder = 10.0000

16-MAY-2018
S/N =   010
D/S=   0001
Run=   4

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0852

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

Gap Reading = 10.0000   US Encoder = 10.0001   DS Encoder = 10.0000

16-MAY-2018
S/N =   010
D/S=   0001
Run=   4

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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	5.0872	5.0883	5.0912	5.0924
Bottom	-4.9224	-4.9211	-4.9178	-4.9165
Gap	10.0096			10.0089
Taper				-0.0007

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0898	-4.9194	10.0092	0.0852

Additional Calculated Values

Bottom Pole #1 Z Value	979.704
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	9.976
Reference Block Gap	6.802

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0001   DS Encoder = 10.0000

16-MAY-2018
S/N = 010
D/S= 0001
Run= 4