Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP = 5.0635   Regression Line Ang. (mrad) =   -0.0073

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   10.007

Bottom Jaw Pole Tips

Y Dev.from Mean

Mean BTM =   -5.0024   Regression Line Ang. (mrad) =   -0.0059

Y Value Scales Centered on Mean Values   Regression Line Through Points =————————

Step Between Measured Pole Tips =   1   Dimensions in mm

Gap Between Opposing Pole Tips

Mean Gap = 10.0659

Step Between Measured Pole Tips = 1

Dimensions in mm

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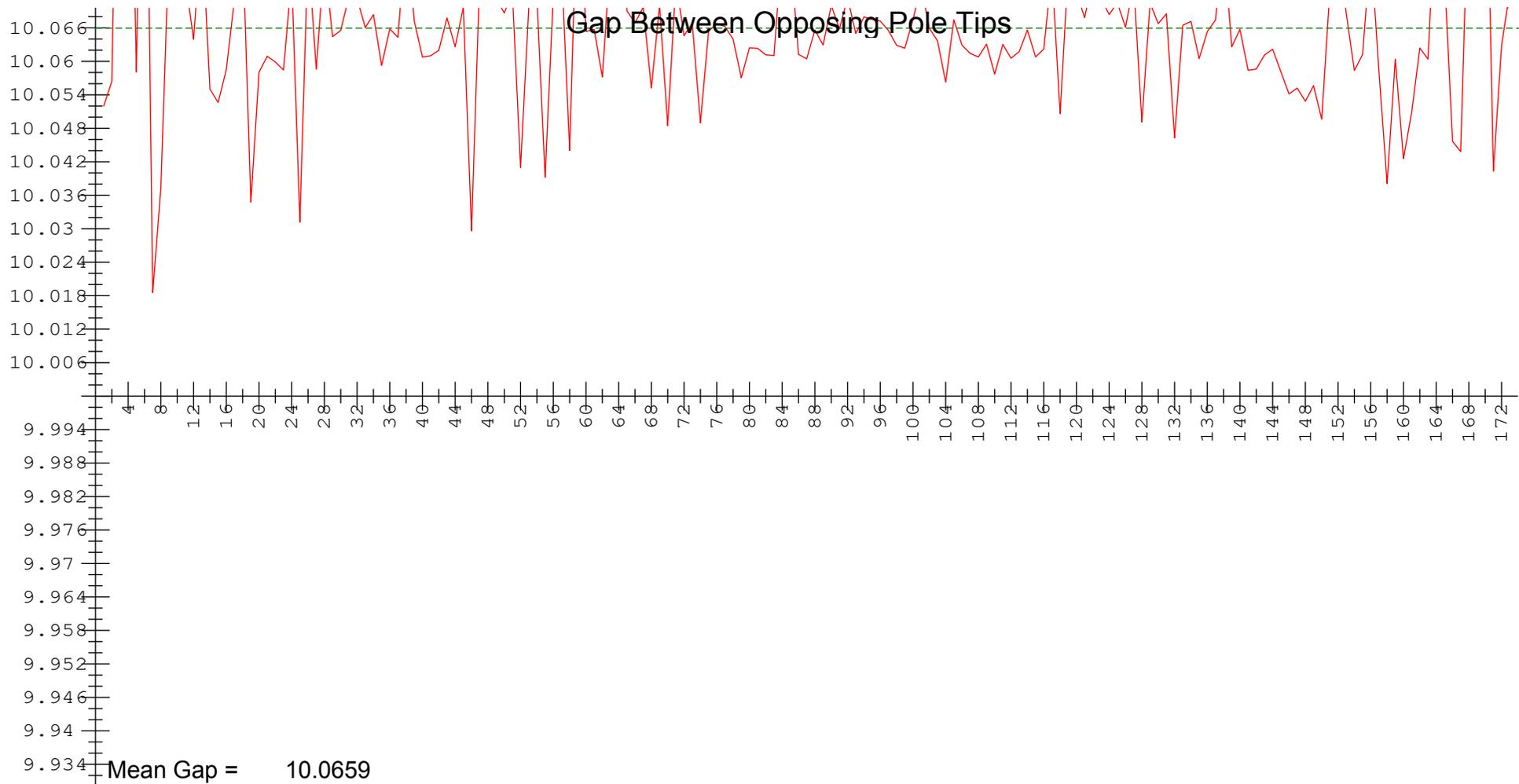NATIONAL ACCELERATOR LABORATORY
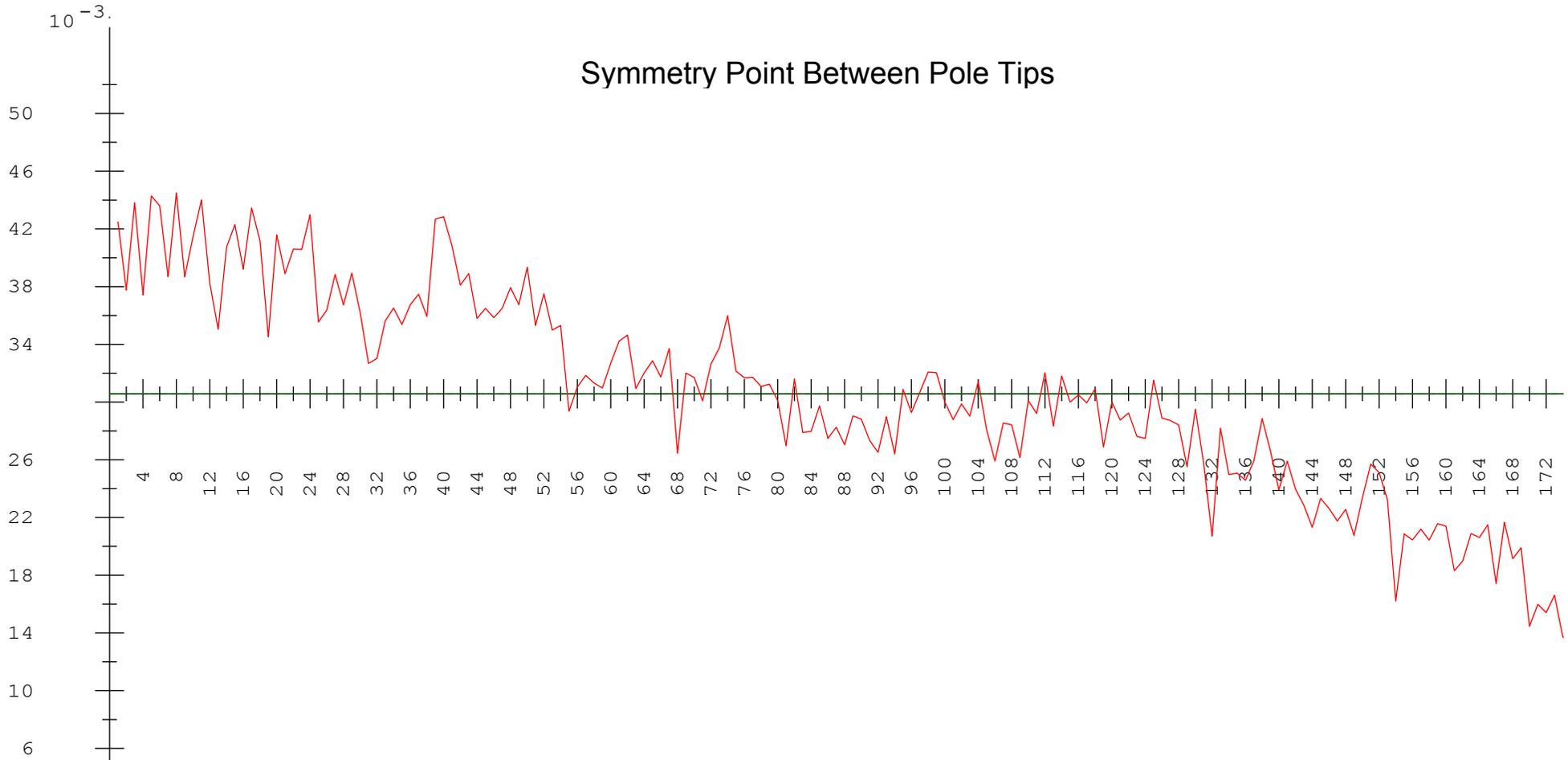### METROLOGY

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

17-APR-2019
S/N =   002
D/S=   0001
Run=   12

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0306

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 = 10.0000   DS Encoder = 10.0000

17-APR-2019
S/N =   002
D/S=   0001
Run=   12

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METROLOGY

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	5.0758	5.0704	5.0568	5.0513
Bottom	-4.9924	-4.9968	-5.0079	-5.0124
Gap	10.0682			10.0636
Taper				-0.0046

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0635	-5.0024	10.0659	0.0306

Additional Calculated Values

Bottom Pole #1 Z Value	980.301
Top Jaw Pitch (mrad)	-0.007
Bottom Jaw Pitch(mrad)	-0.006
Minimum Effective Gap	10.007
Reference Block Gap	6.810

Dimensions in mm

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

17-APR-2019
S/N = 002
D/S= 0001
Run= 12