Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.0451   Regression Line Ang. (mrad) =   0.0013

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.948

Y Dev. from Mean

Mean BTM =   -4.9635   Regression Line Ang. (mrad) =   0.0028

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

SLAC
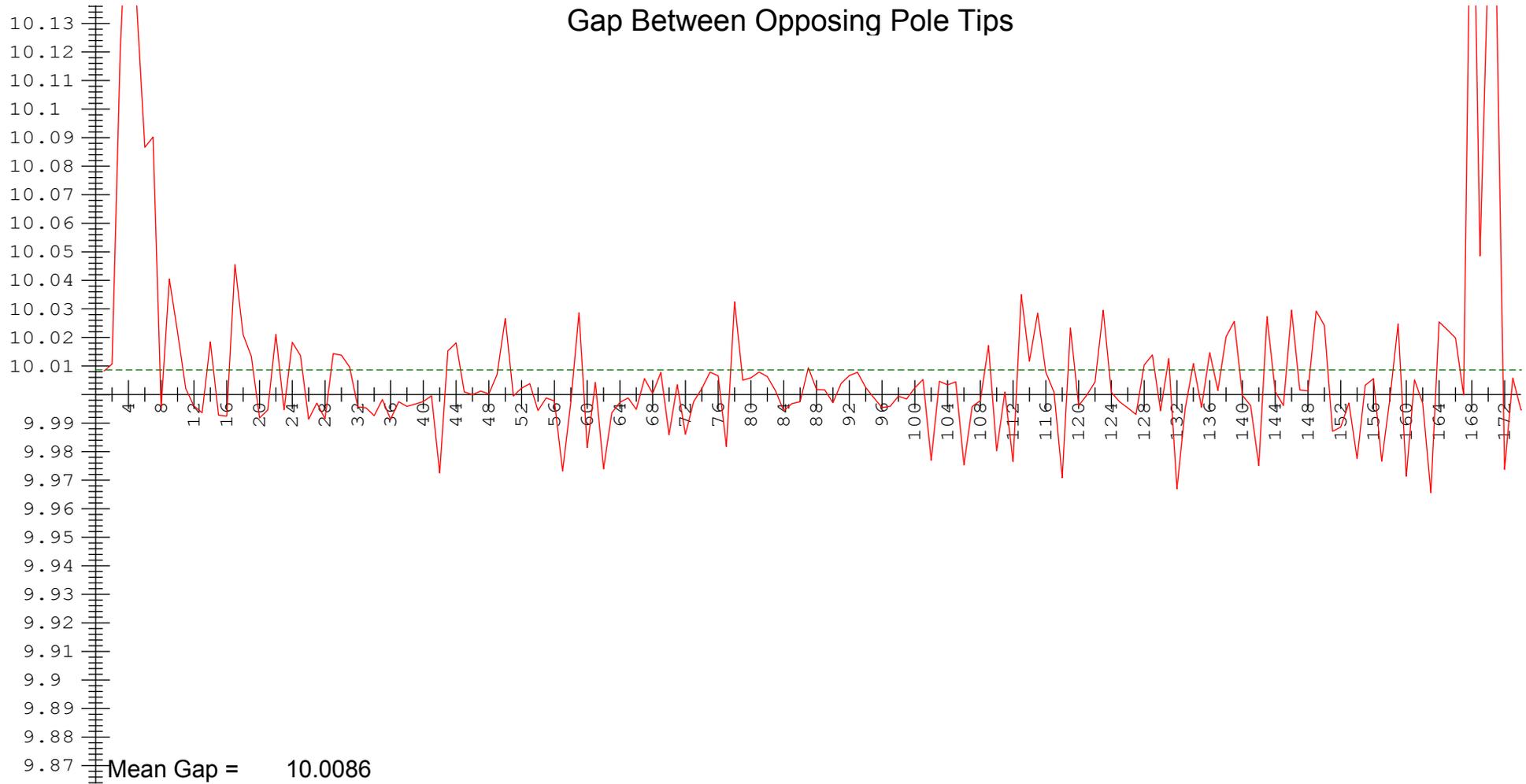NATIONAL ACCELERATOR LABORATORY
METROLOGY

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

01-MAR-2019
S/N =   020
D/S=   0001
Run=   10

Gap Between Opposing Pole Tips

Mean Gap =   10.0086

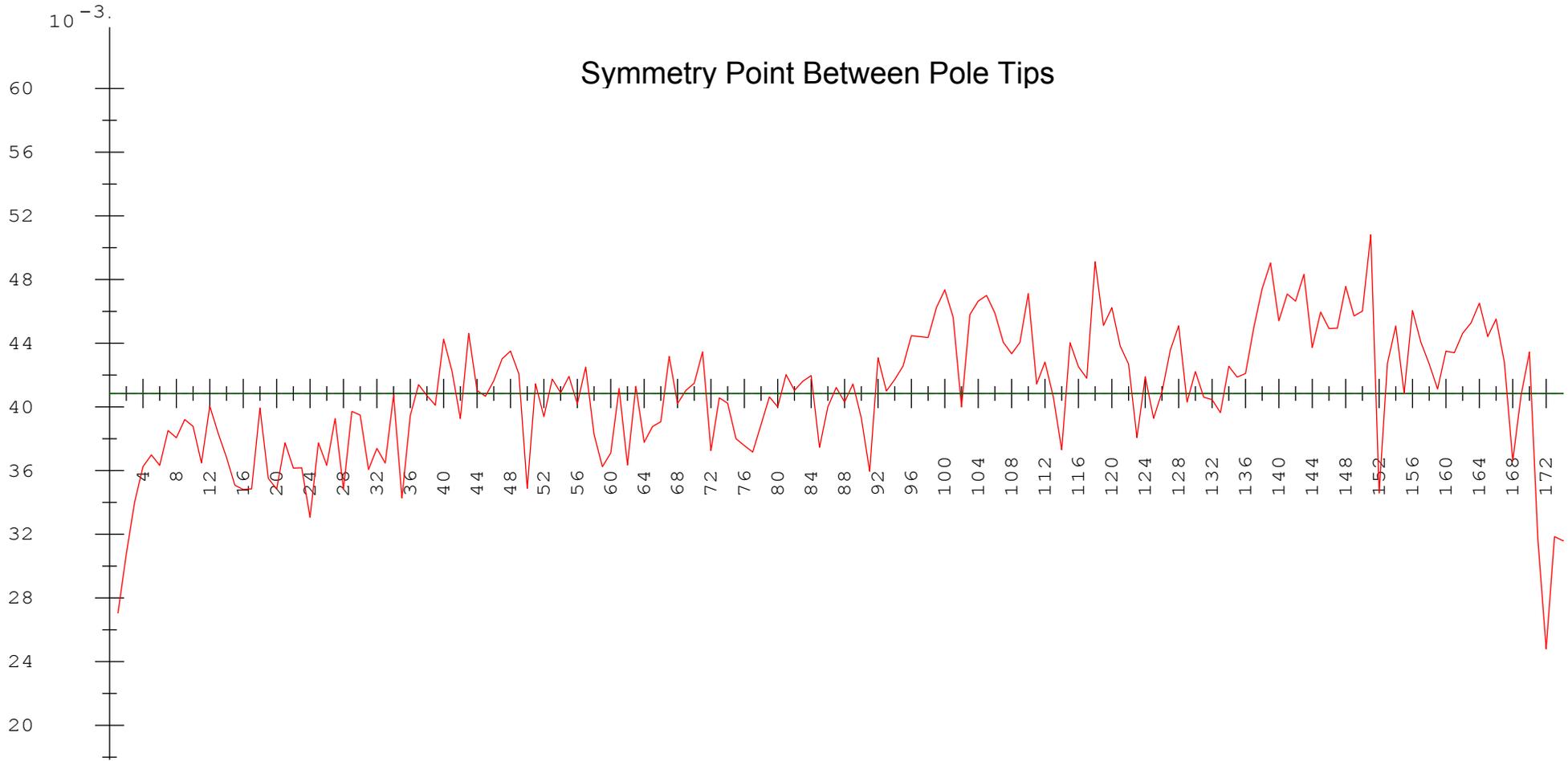Step Between Measured Pole Tips =   1

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

01-MAR-2019
S/N =   020
D/S=   0001
Run=   10

NATIONAL ACCELERATOR LABORATORY
METROLOGY

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0408

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC
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

01-MAR-2019
S/N =   020
D/S=   0001
Run=   10

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	5.0430	5.0439	5.0463	5.0473
Bottom	-4.9681	-4.9661	-4.9609	-4.9588
Gap	10.0111			10.0061
Taper				-0.0049

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0451	-4.9635	10.0086	0.0408

Additional Calculated Values

Bottom Pole #1 Z Value	980.524
Top Jaw Pitch (mrad)	0.001
Bottom Jaw Pitch(mrad)	0.003
Minimum Effective Gap	9.948
Reference Block Gap	6.809

Dimensions in mm

SLAC
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

01-MAR-2019
S/N = 020
D/S= 0001
Run= 10