Top Jaw Pole Tips

Y Dev.from Mean

Mean TOP =   5.1095   Regression Line Ang. (mrad) =   0.0417

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   10.002

Y Dev.from Mean

Mean BTM =   -5.0522   Regression Line Ang. (mrad) =   -0.0443

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

Step Between Measured Pole Tips =   1   Dimensions in mm

SLAC
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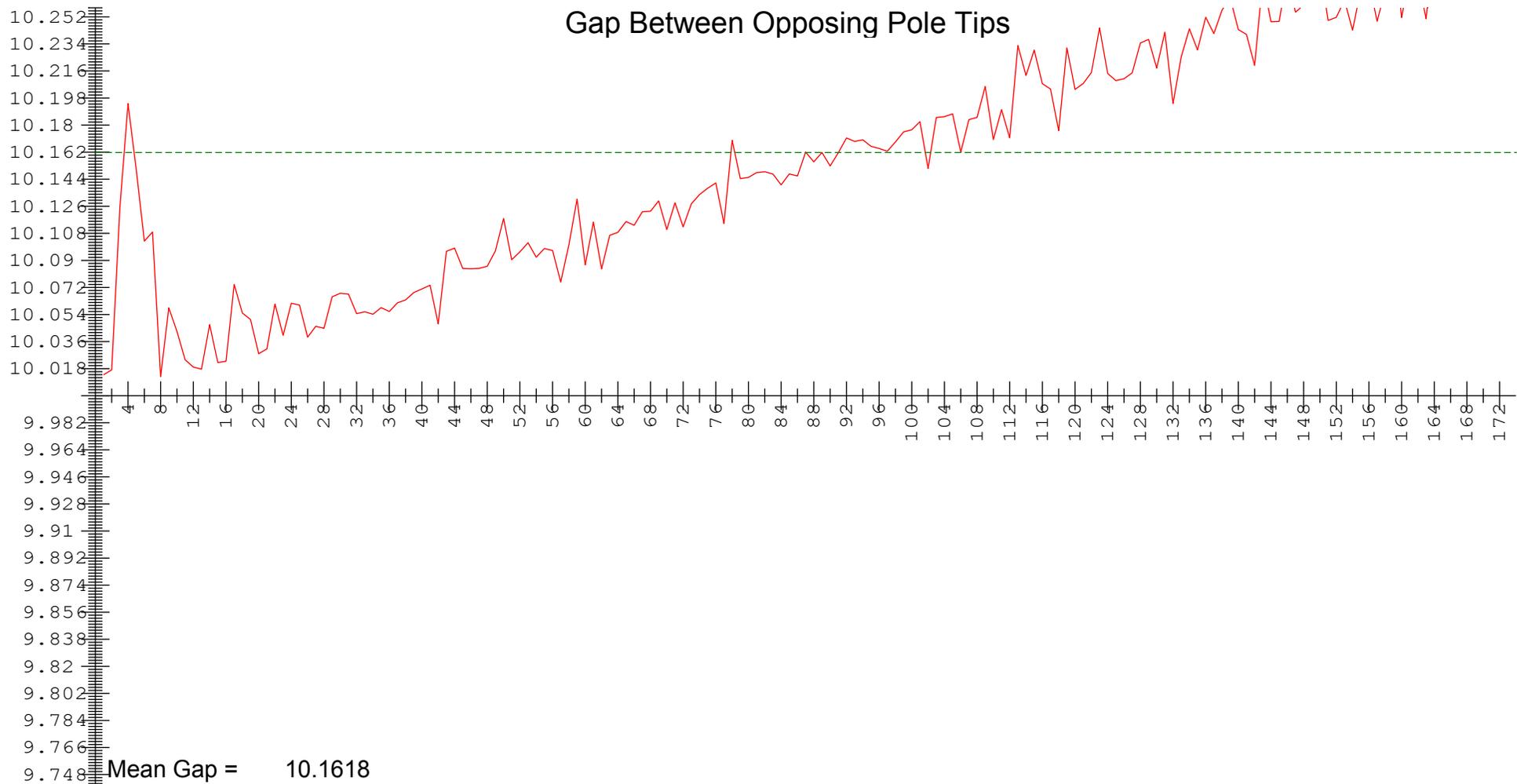METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.300

Gap Reading = 10.1501   US Encoder = 10.0001   DS Encoder = 10.3000

28-FEB-2019
S/N =   020
D/S=   0001
Run=   9

Gap Between Opposing Pole Tips

Mean Gap =   10.1618

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC
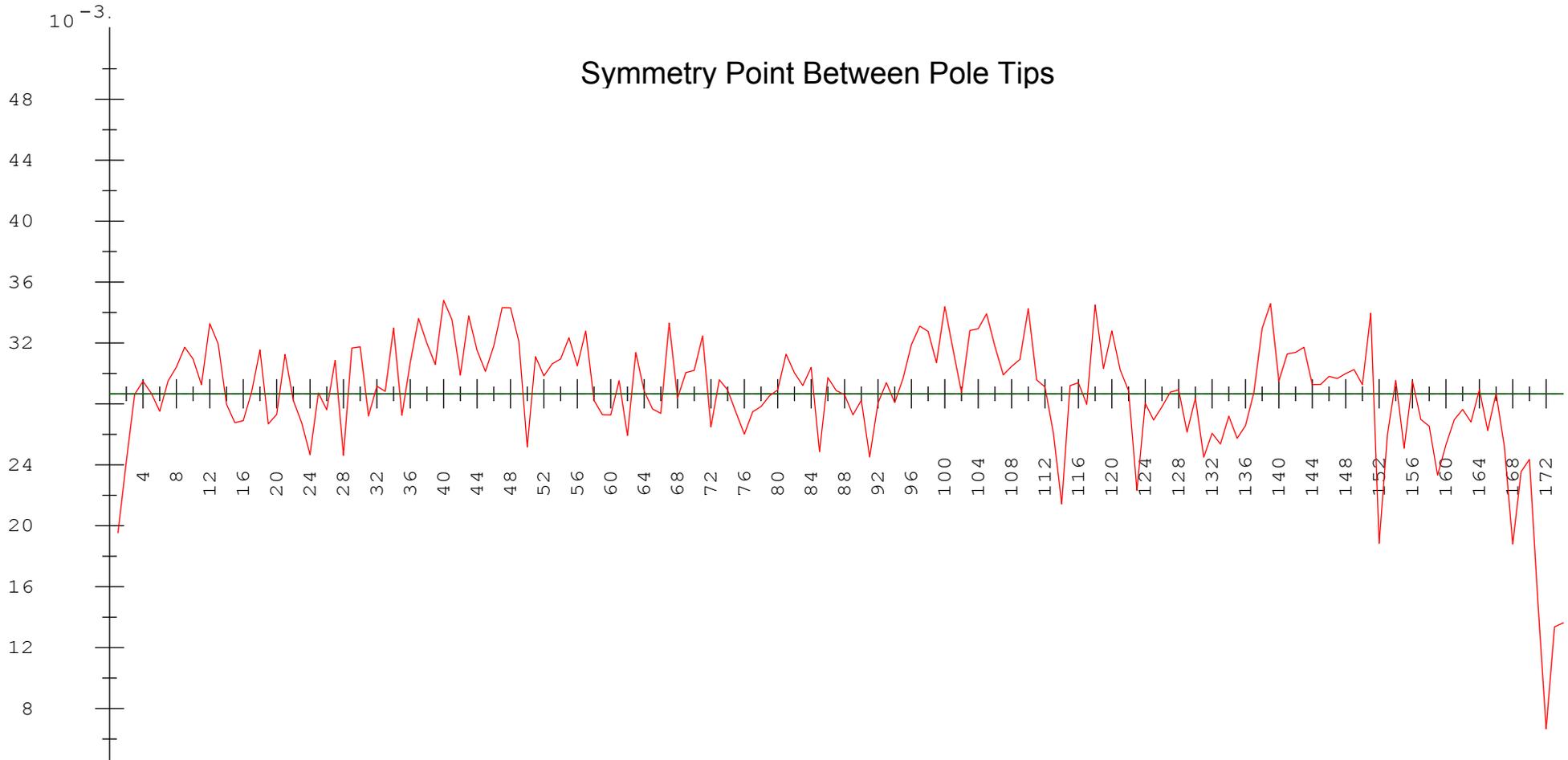NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1501   US Encoder = 10.0001   DS Encoder = 10.3000

28-FEB-2019
S/N =   020
D/S=   0001
Run=   9

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0287

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	**LCLS II - SXR Undulator** Nominal Gap = 10 Nominal Taper = 0.300 Gap Reading = 10.1501 US Encoder = 10.0001 DS Encoder = 10.3000	28-FEB-2019 S/N = 020 D/S= 0001 Run= 9

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	5.0391	5.0701	5.1482	5.1800
Bottom	-4.9775	-5.0103	-5.0932	-5.1269
Gap	10.0167			10.3069
Taper				0.2902

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1095	-5.0522	10.1618	0.0287

Additional Calculated Values

Bottom Pole #1 Z Value	980.524
Top Jaw Pitch (mrad)	0.042
Bottom Jaw Pitch(mrad)	-0.044
Minimum Effective Gap	10.002
Reference Block Gap	6.809

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.300
Gap Reading = 10.1501   US Encoder = 10.0001   DS Encoder = 10.3000

28-FEB-2019
S/N = 020
D/S= 0001
Run= 9