Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   5.1095   Regression Line Ang. (mrad) =   0.0022

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   9.967

Y Dev. from Mean

Mean BTM =   -4.8989   Regression Line Ang. (mrad) =   0.0011

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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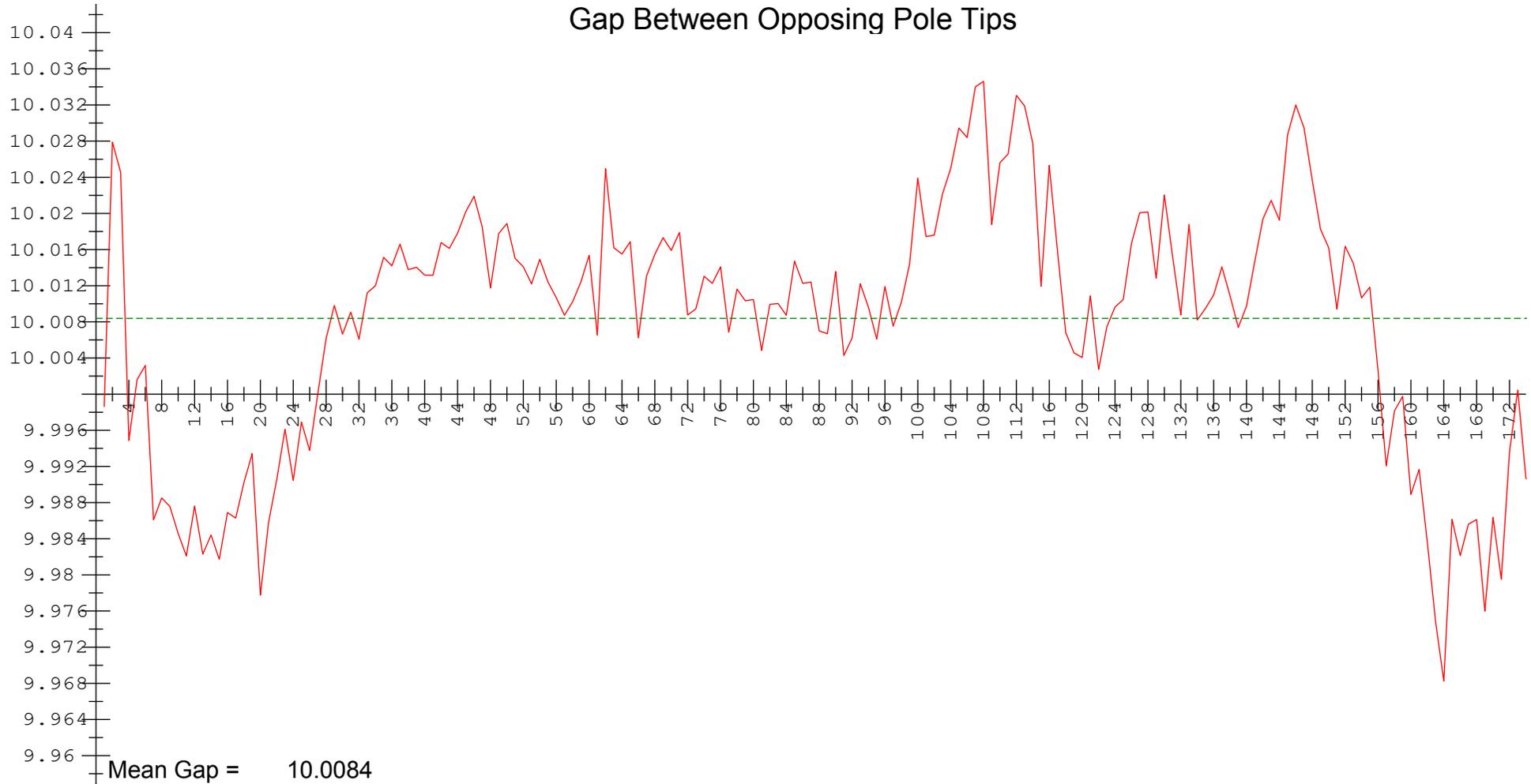METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 0.0100   DS Encoder = 0.0100

22-NOV-2019
S/N =   021
D/S=   0001
Run=   3

Gap Between Opposing Pole Tips

Mean Gap =   10.0084

Step Between Measured Pole Tips =   1
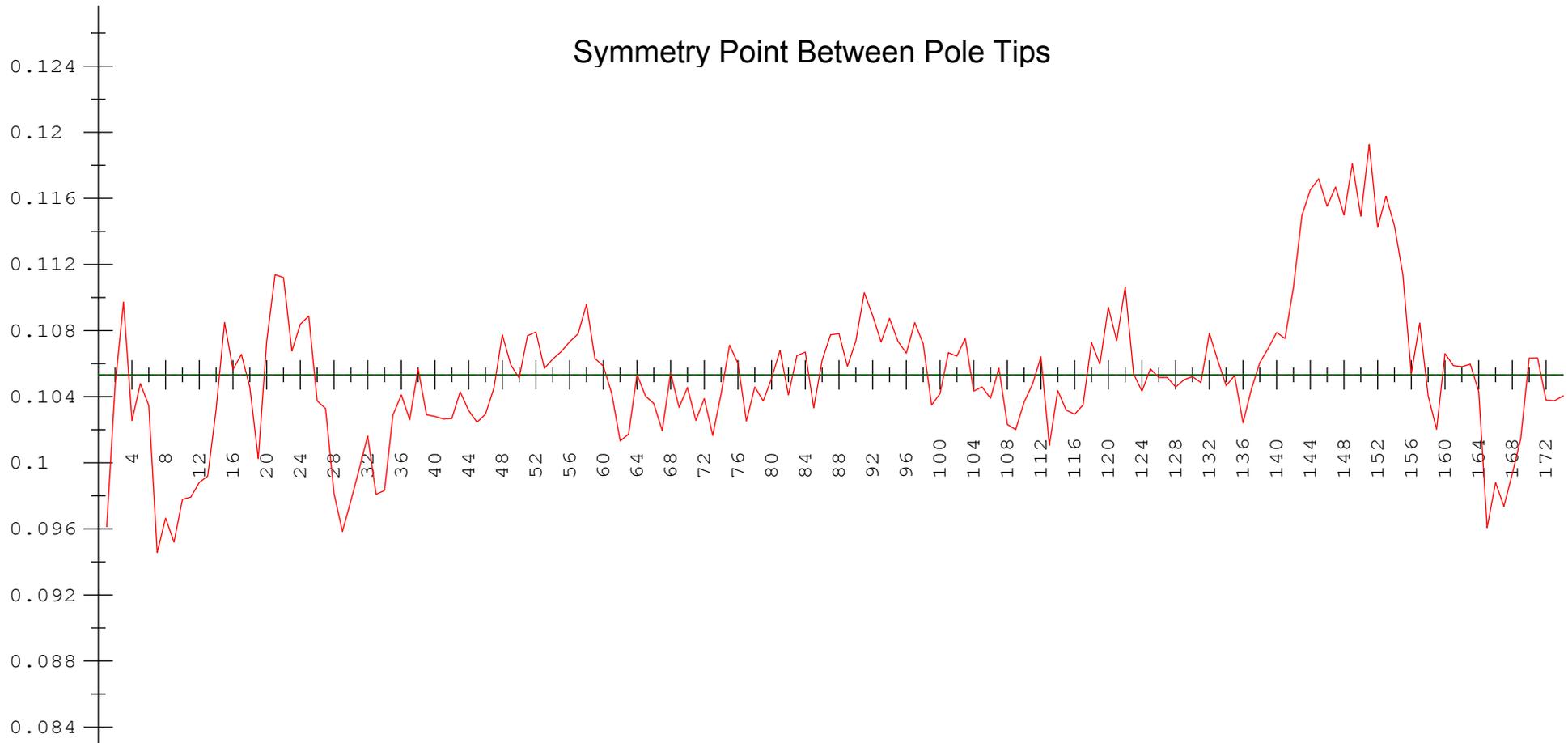
Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 0.0100   DS Encoder = 0.0100

22-NOV-2019
S/N =   021
D/S=   0001
Run=   3

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1053

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 = 0.0100   DS Encoder = 0.0100

22-NOV-2019
S/N =   021
D/S=   0001
Run=   3

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	5.1058	5.1074	5.1116	5.1132
Bottom	-4.9007	-4.8999	-4.8979	-4.8970
Gap	10.0065			10.0103
Taper				0.0038

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.1095	-4.8989	10.0084	0.1053

Additional Calculated Values

Bottom Pole #1 Z Value	980.155
Top Jaw Pitch (mrad)	0.002
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.967
Reference Block Gap	6.799

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 = 0.0100 DS Encoder = 0.0100

22-NOV-2019
S/N = 021
D/S = 0001
Run = 3