Top Jaw Pole Tips

Y Dev. from Mean

Pole Tip Num. ---->

Mean TOP = 5.0140   Regression Line Ang. (mrad) = 0.0051

Minimum Effective Gap = 9.925

Bottom Jaw Pole Tips

Y Dev. from Mean

Mean BTM = -4.9989   Regression Line Ang. (mrad) = -0.0006

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

Regression Line Through Points = ----------
Dimensions in mm

SLAC
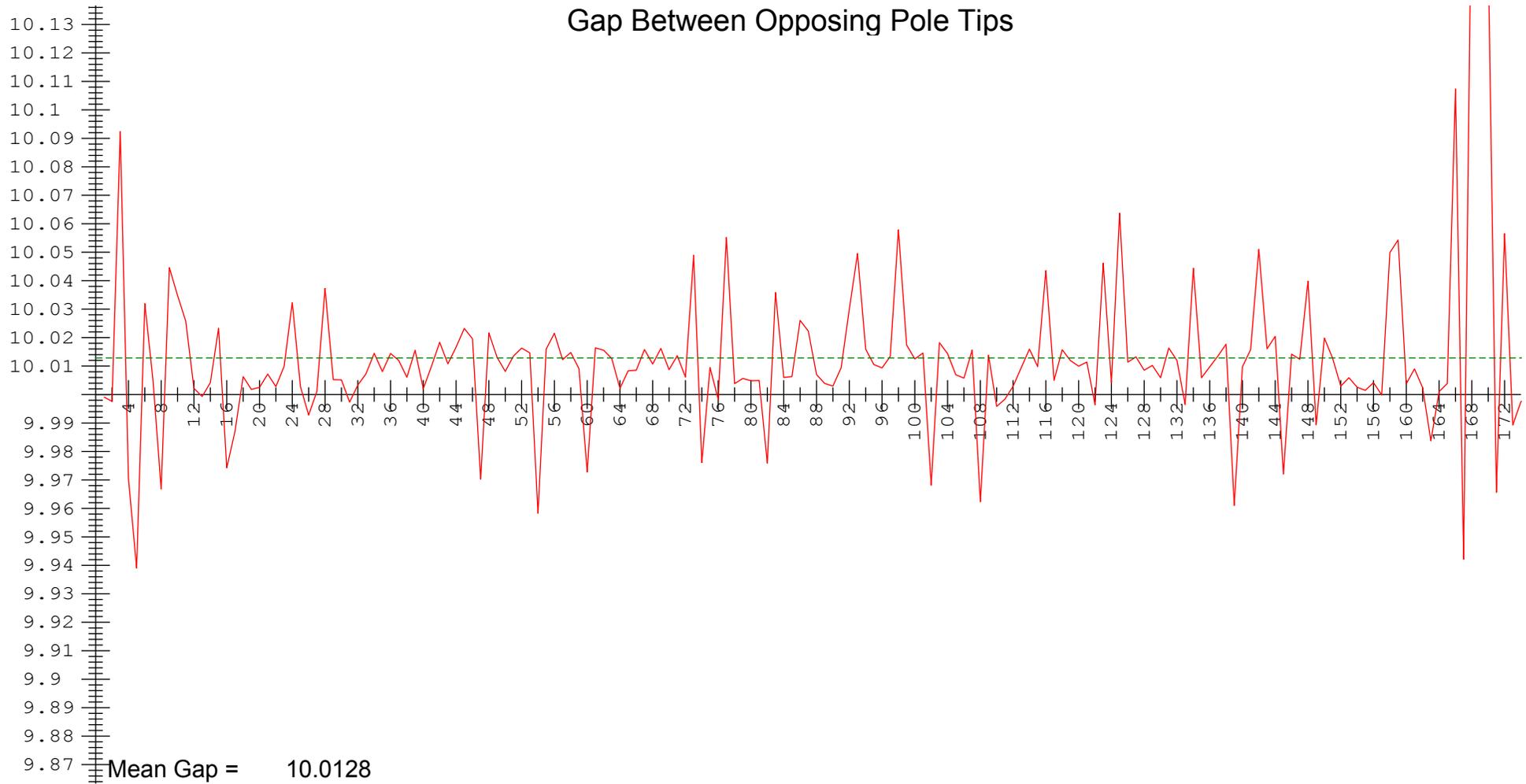NATIONAL ACCELERATOR LABORATORY
METROLOGY

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

02-AUG-2018
S/N = 013
D/S = 0001
Run = 21

Gap Between Opposing Pole Tips

Mean Gap =   10.0128

Step Between Measured Pole Tips =   1
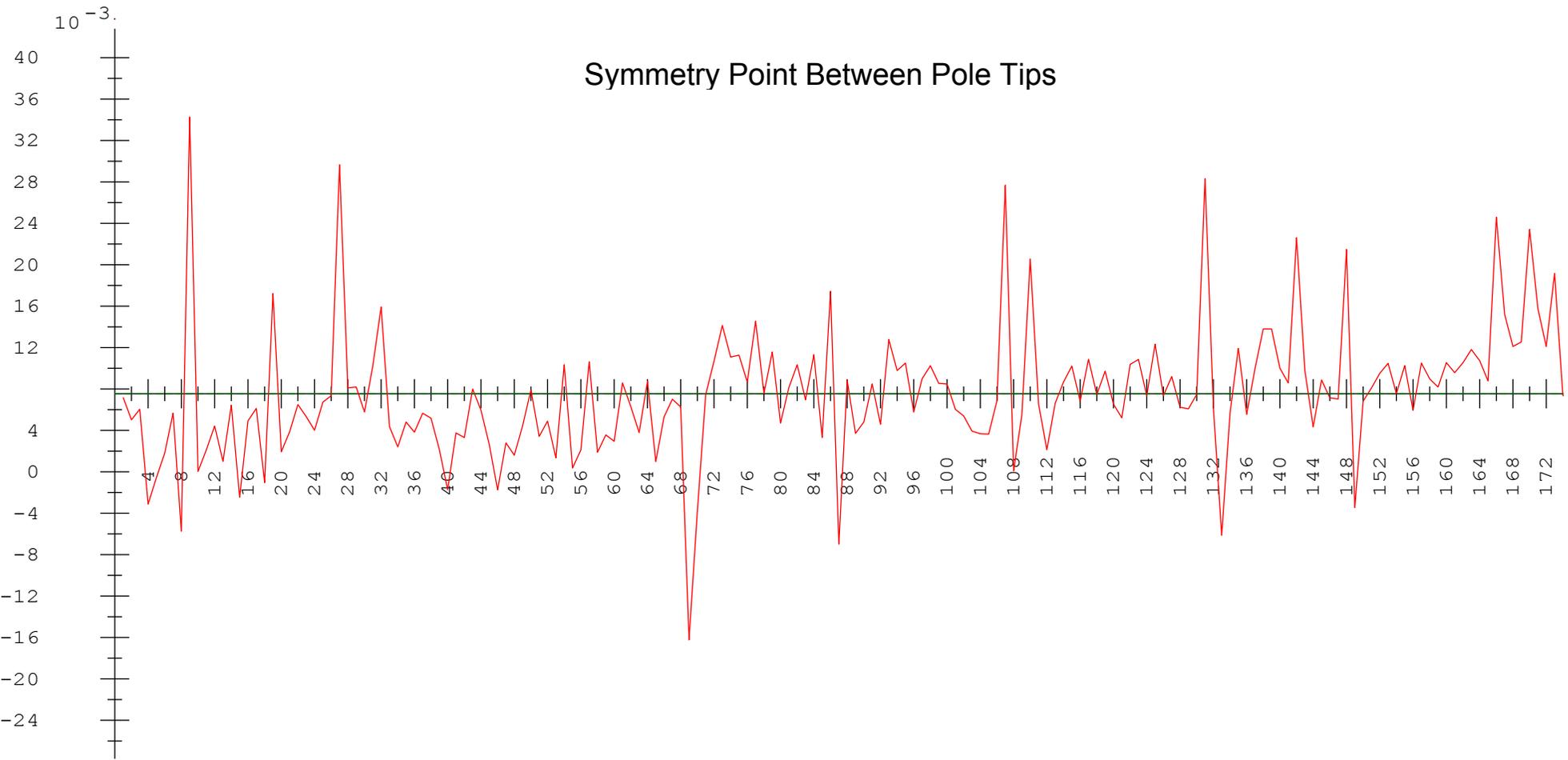
Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 10   Nominal Taper = 0.000

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

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METROLOGY

02-AUG-2018
S/N =   013
D/S=   0001
Run=   21

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0075

Step Between Measured Pole Tips =   1

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

02-AUG-2018
S/N =   013
D/S=   0001
Run=   21

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	5.0053	5.0091	5.0187	5.0226
Bottom	-4.9978	-4.9983	-4.9995	-5.0000
Gap	10.0031			10.0226
Taper				0.0195

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0140	-4.9989	10.0128	0.0075

Additional Calculated Values

Bottom Pole #1 Z Value	979.747
Top Jaw Pitch (mrad)	0.005
Bottom Jaw Pitch(mrad)	-0.001
Minimum Effective Gap	9.925
Reference Block Gap	6.804

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 = 10.0000   DS Encoder = 10.0000

02-AUG-2018
S/N = 013
D/S= 0001
Run= 21