Top Jaw Pole Tips

Mean TOP = 4.9973   Regression Line Ang. (mrad) = 0.0070

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap = 9.915

Mean BTM = -4.9815   Regression Line Ang. (mrad) = 0.0096

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

Step Between Measured Pole Tips = 1   Dimensions in mm

SLAC
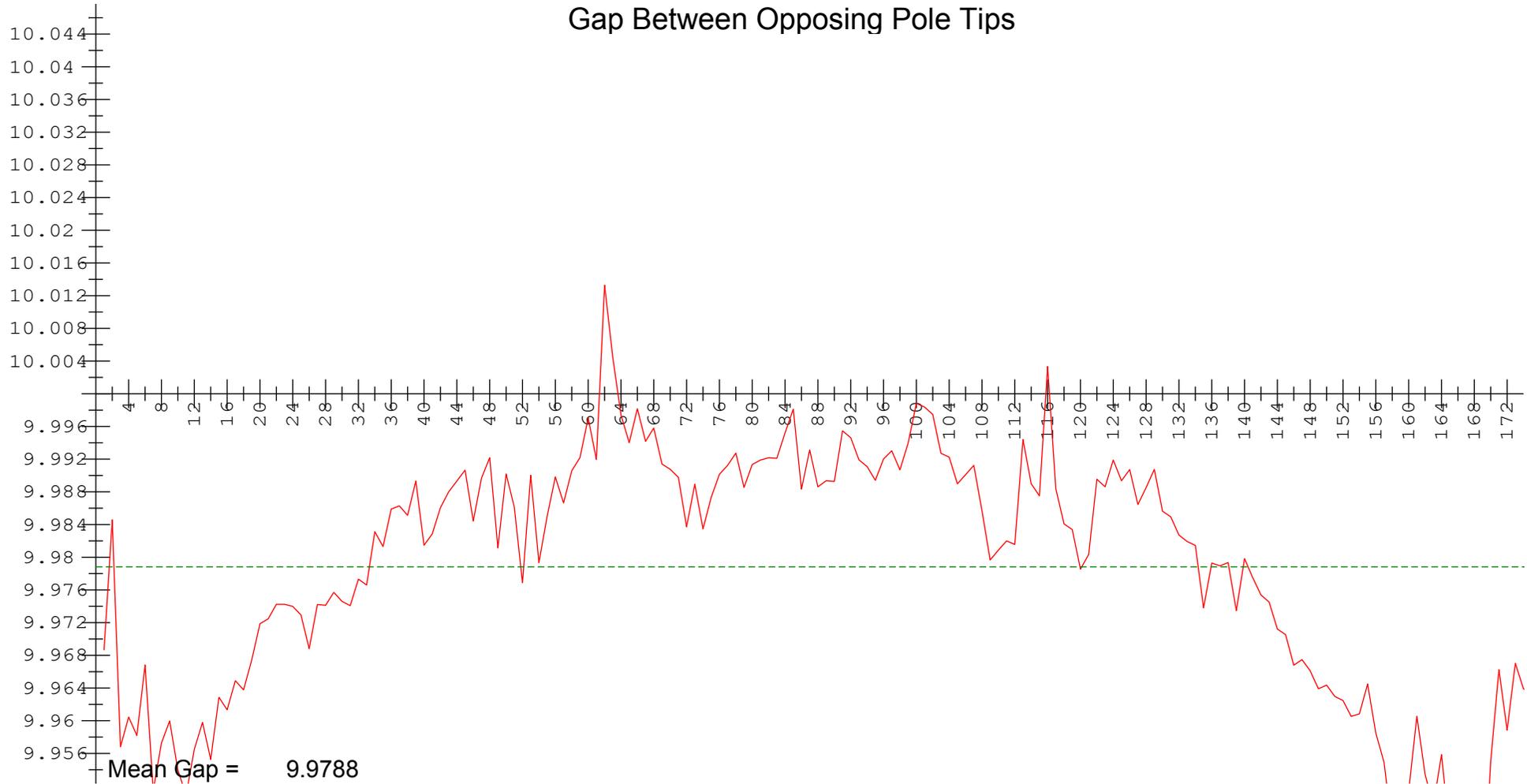NATIONAL ACCELERATOR LABORATORY
METROLOGY

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

22-AUG-2018
S/N = 014
D/S = 0001
Run = 13

Gap Between Opposing Pole Tips

Mean Gap =   9.9788

Step Between Measured Pole Tips =   1

Dimensions in mm

SLAC
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METROLOGY

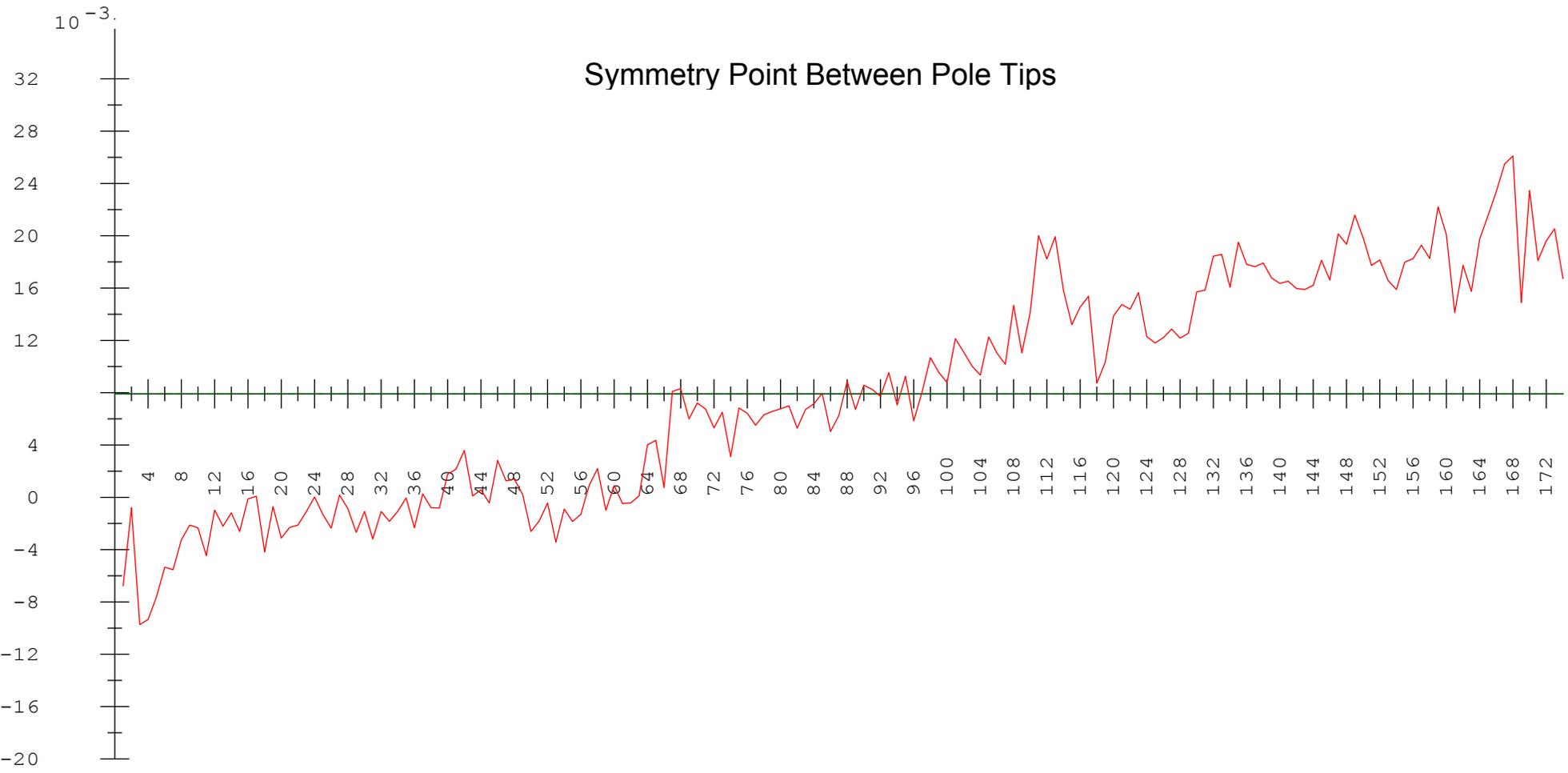**LCLS II - SXR Undulator**
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

22-AUG-2018
S/N =   014
D/S=   0001
Run=   13

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0079

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 = 10.0000   DS Encoder = 10.0000

22-AUG-2018
S/N =   014
D/S=   0001
Run=   13

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	4.9855	4.9907	5.0038	5.0091
Bottom	-4.9977	-4.9906	-4.9726	-4.9653
Gap	9.9833			9.9744
Taper				-0.0089

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.9973	-4.9815	9.9788	0.0079

Additional Calculated Values

Bottom Pole #1 Z Value	979.941
Top Jaw Pitch (mrad)	0.007
Bottom Jaw Pitch(mrad)	0.010
Minimum Effective Gap	9.915
Reference Block Gap	6.806

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

22-AUG-2018
S/N = 014
D/S= 0001
Run= 13