Top Jaw Pole Tips

Y Dev. from Mean

Mean TOP =   4.6985   Regression Line Ang. (mrad) =   -0.0020

Pole Tip Num. ---->   **Bottom Jaw Pole Tips**   Minimum Effective Gap =   8.957

Y Dev. from Mean

Mean BTM =   -4.3041   Regression Line Ang. (mrad) =   -0.0003

Y Value Scales Centered on Mean Values   Regression Line Through Points =
Step Between Measured Pole Tips =   7   Dimensions in mm

SLAC
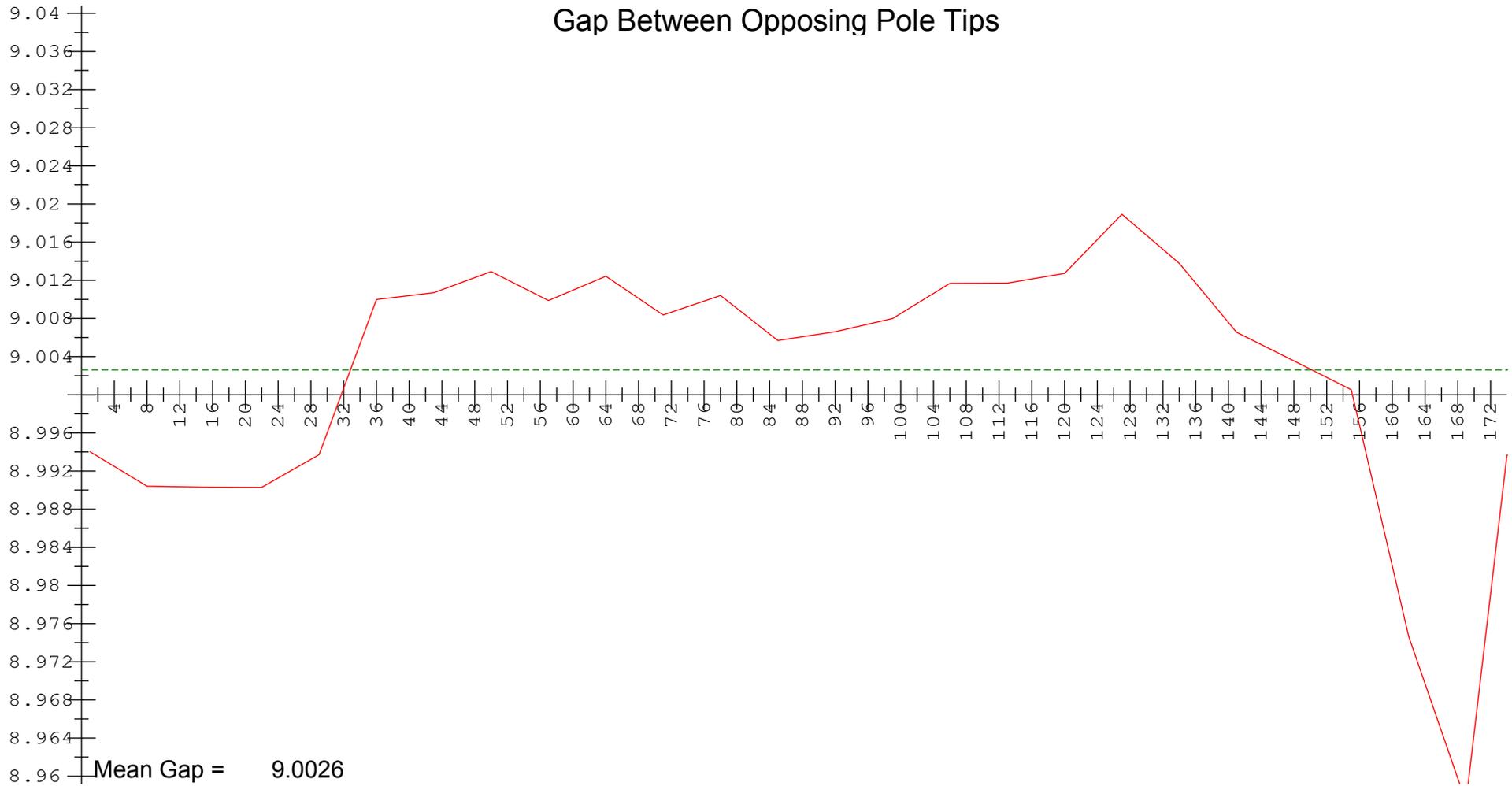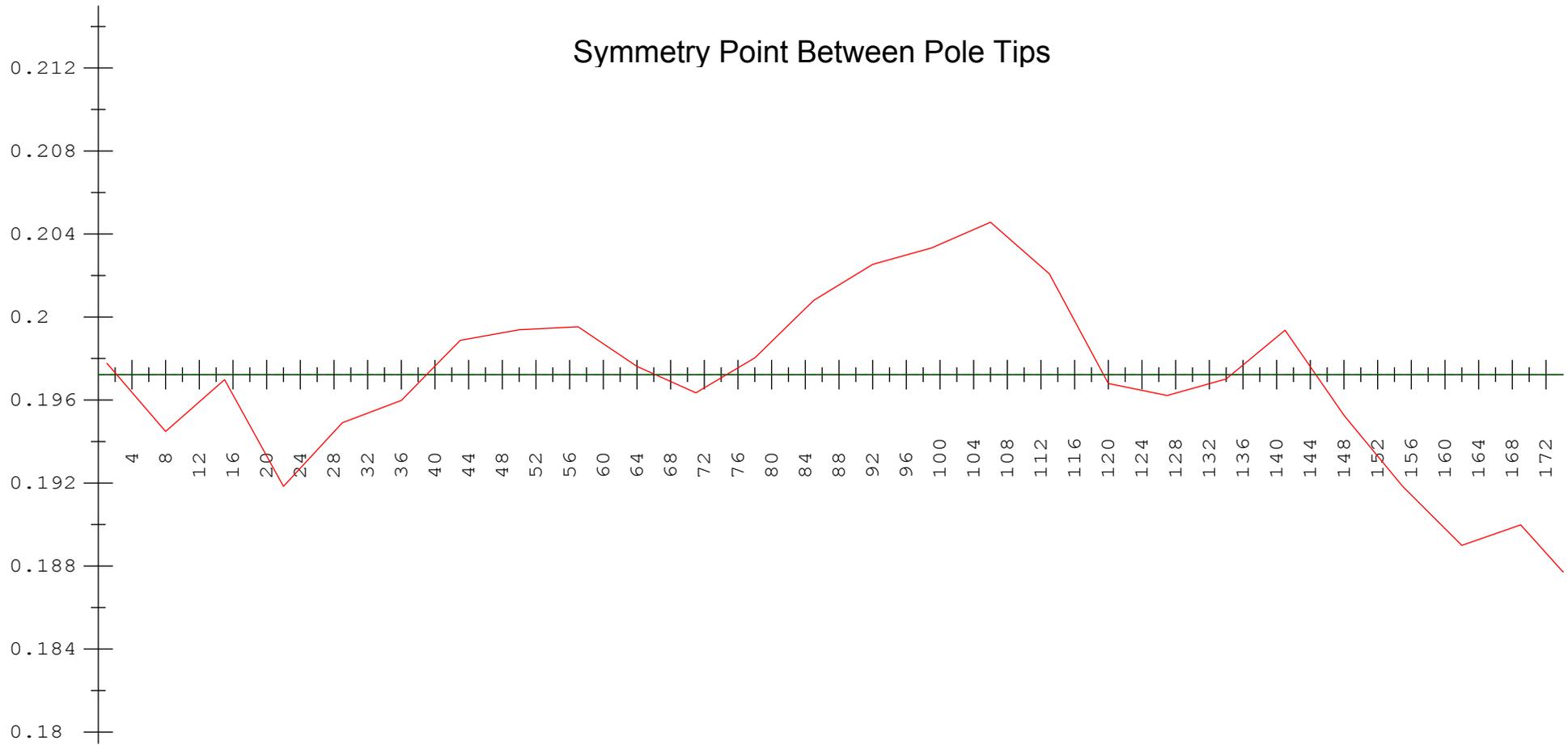NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 9   Nominal Taper = 0.000
Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

18-DEC-2018
S/N =   018
D/S=   0001
Run=   3

Gap Between Opposing Pole Tips

Mean Gap =   9.0026

Step Between Measured Pole Tips =   7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 9   Nominal Taper = 0.000

Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

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METROLOGY

18-DEC-2018
S/N =   018
D/S=   0001
Run=   3

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1972

Step Between Measured Pole Tips =   7

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 9   Nominal Taper = 0.000
Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

18-DEC-2018
S/N =   018
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	4.7013	4.6999	4.6962	4.6947
Bottom	-4.3037	-4.3040	-4.3046	-4.3048
Gap	9.0050			8.9995
Taper				-0.0055

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.6985	-4.3041	9.0026	0.1972

Additional Calculated Values

Bottom Pole #1 Z Value	980.178
Top Jaw Pitch (mrad)	-0.002
Bottom Jaw Pitch(mrad)	0.000
Minimum Effective Gap	8.957
Reference Block Gap	6.806

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 9   Nominal Taper = 0.000
Gap Reading = 9.0000   US Encoder = 9.0000   DS Encoder = 9.0000

18-DEC-2018
S/N = 018
D/S= 0001
Run= 3