Top Jaw Pole Tips

Mean TOP = 10.0214   Regression Line Ang. (mrad) = 0.0043

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 19.738

Mean BTM = -9.9208   Regression Line Ang. (mrad) = 0.0157
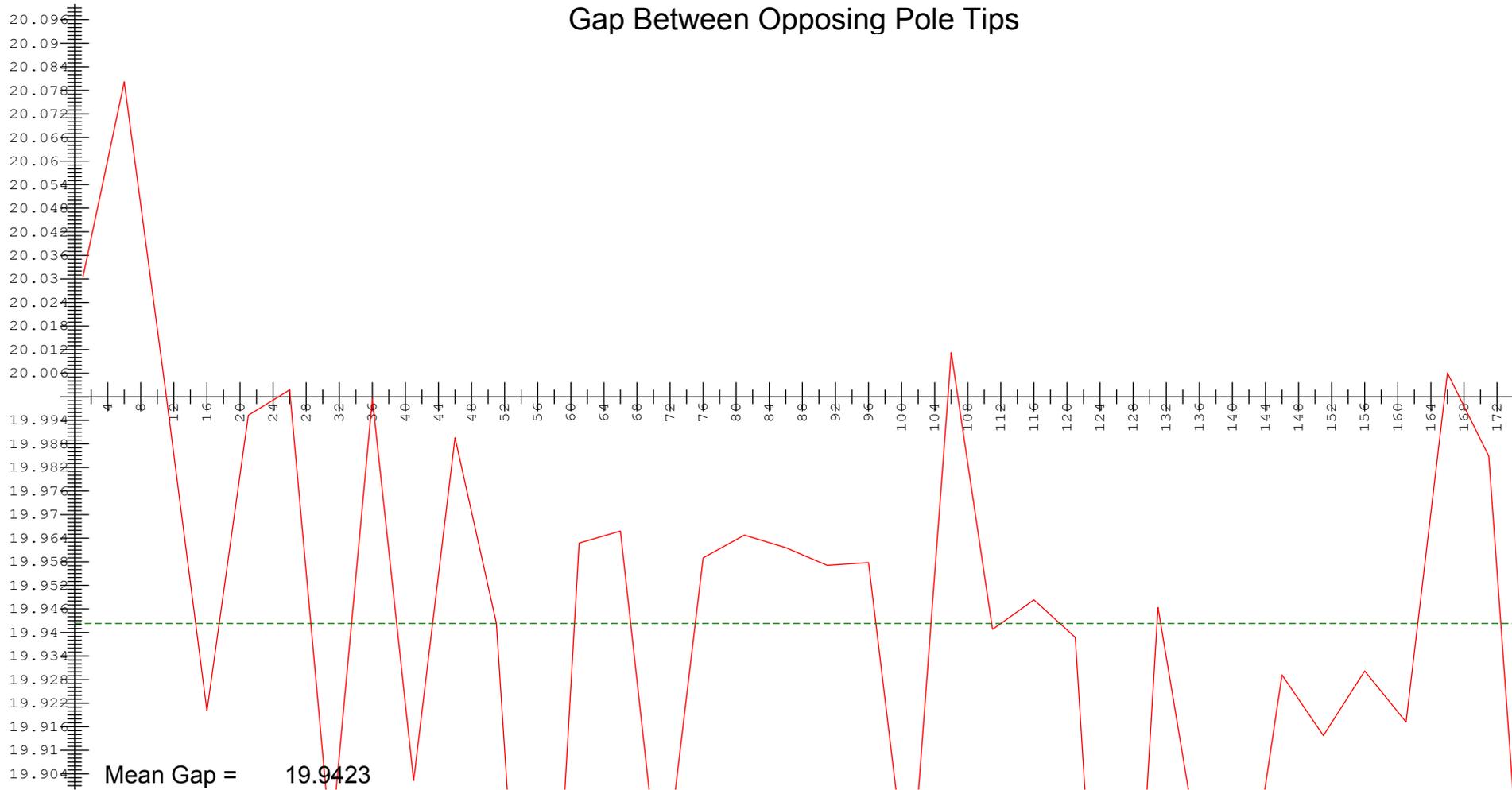
Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 5

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

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20
Gap Reading = 19.9499   US Encoder = 20.0000   DS Encoder = 19.8999

25-JAN-2018
S/N = 006
D/S= 0001
Run= 13

Gap Between Opposing Pole Tips

Mean Gap =   19.9423

Step Between Measured Pole Tips = 5

Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 20

Gap Reading = 19.9499   US Encoder = 20.0000   DS Encoder = 19.8999

SLAC
NATIONAL ACCELERATOR LABORATORY
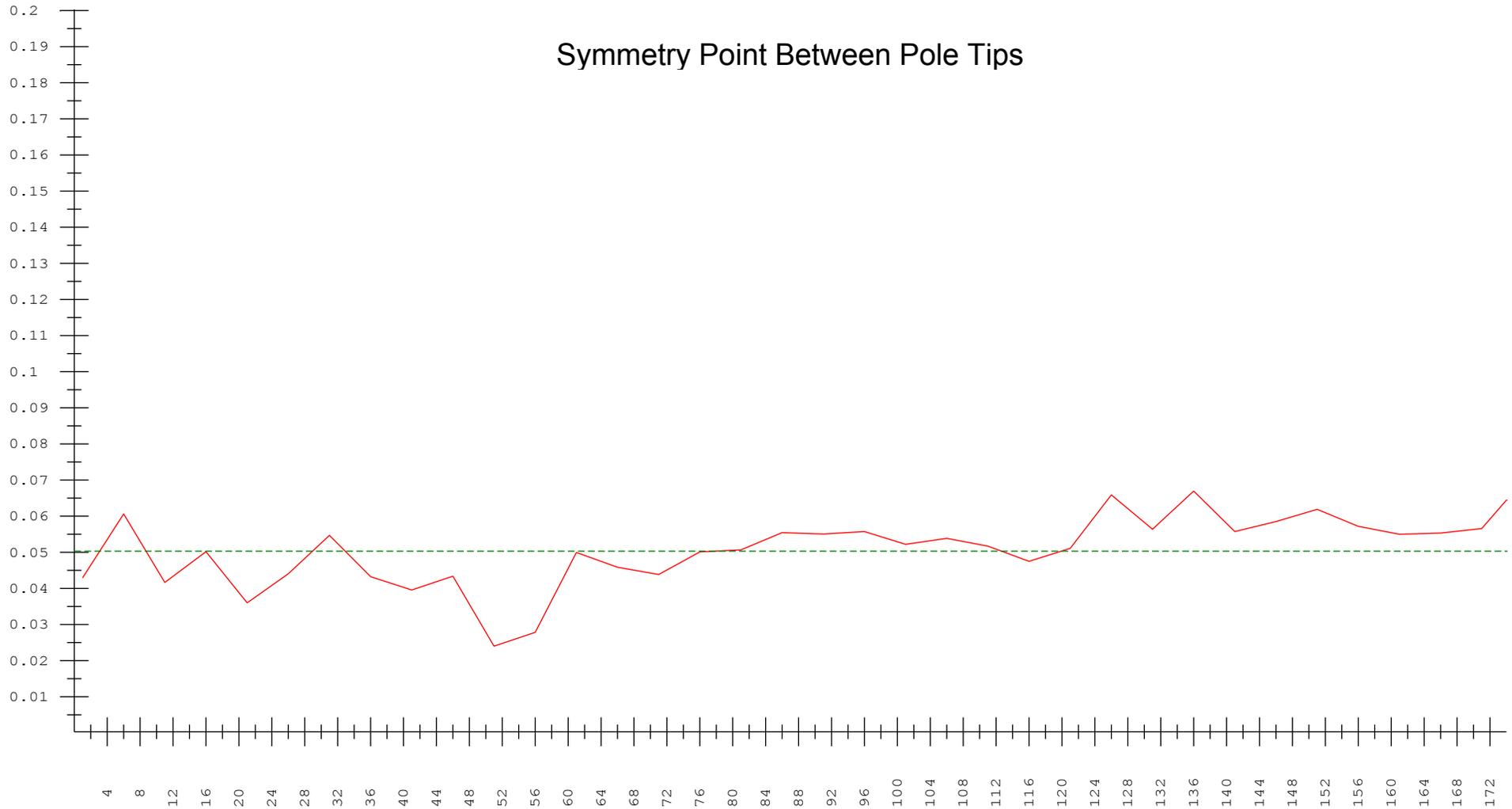METROLOGY

25-JAN-2018
S/N =   006
D/S=   0001
Run=   13

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0503

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator		25-JAN-2018
Nominal Gap = 20		S/N = 006
Gap Reading = 19.9499 US Encoder = 20.0000 DS Encoder = 19.8999		D/S= 0001
		Run= 13

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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	10.0285	10.0253	10.0174	10.0141
Bottom	-9.9467	-9.9350	-9.9055	-9.8936

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
10.0214	-9.9208	19.9423	0.0503

Additional Calculated Vlaues

Bottom Pole #1 Z Value	979.299
Top Jaw Pitch (mrad)	0.004
Bottom Jaw Pitch(mrad)	0.016
Minimum Effective Gap	19.738
Reference Block Gap	6.809

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 20
Gap Reading = 19.9499   US Encoder = 20.0000   DS Encoder = 19.8999

25-JAN-2018
S/N = 006
D/S= 0001
Run= 13