Top Jaw Pole Tips

Pole Tip Num. ---->

Mean TOP =   5.2045   Regression Line Ang. (mrad) =   0.0341

Minimum Effective Gap =   9.820

Bottom Jaw Pole Tips

Mean BTM =   -4.7204   Regression Line Ang. (mrad) =   -0.0188
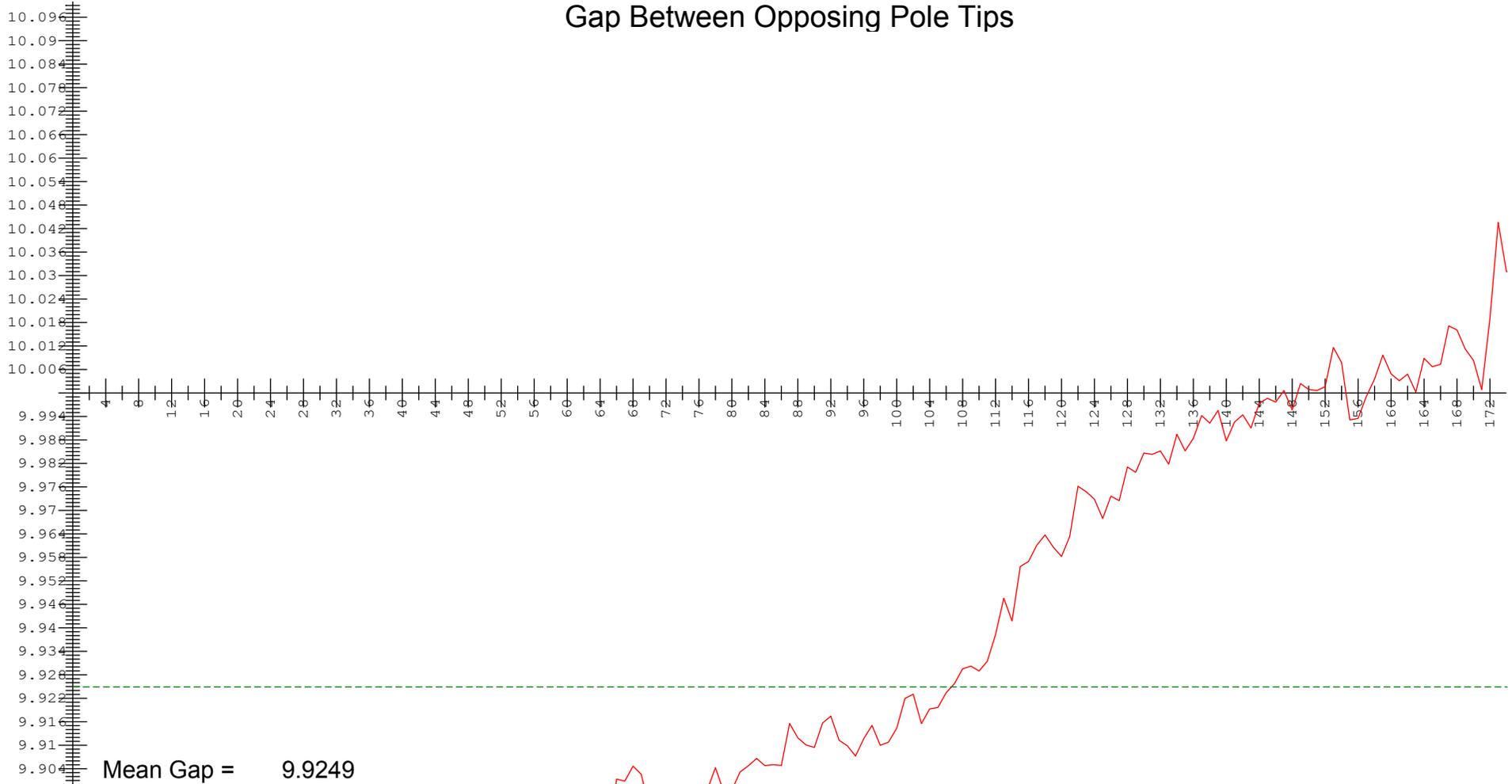
Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips =   1

Regression Line Through Points =‒‒‒‒‒‒‒

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 100.0002   US Encoder = 100.0003   DS Encoder = 100.0002

02-FEB-2018
S/N =   005
D/S=   0001
Run=   02

Gap Between Opposing Pole Tips

Mean Gap =   9.9249

Step Between Measured Pole Tips =   1

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 100.0002   US Encoder = 100.0003   DS Encoder = 100.0002

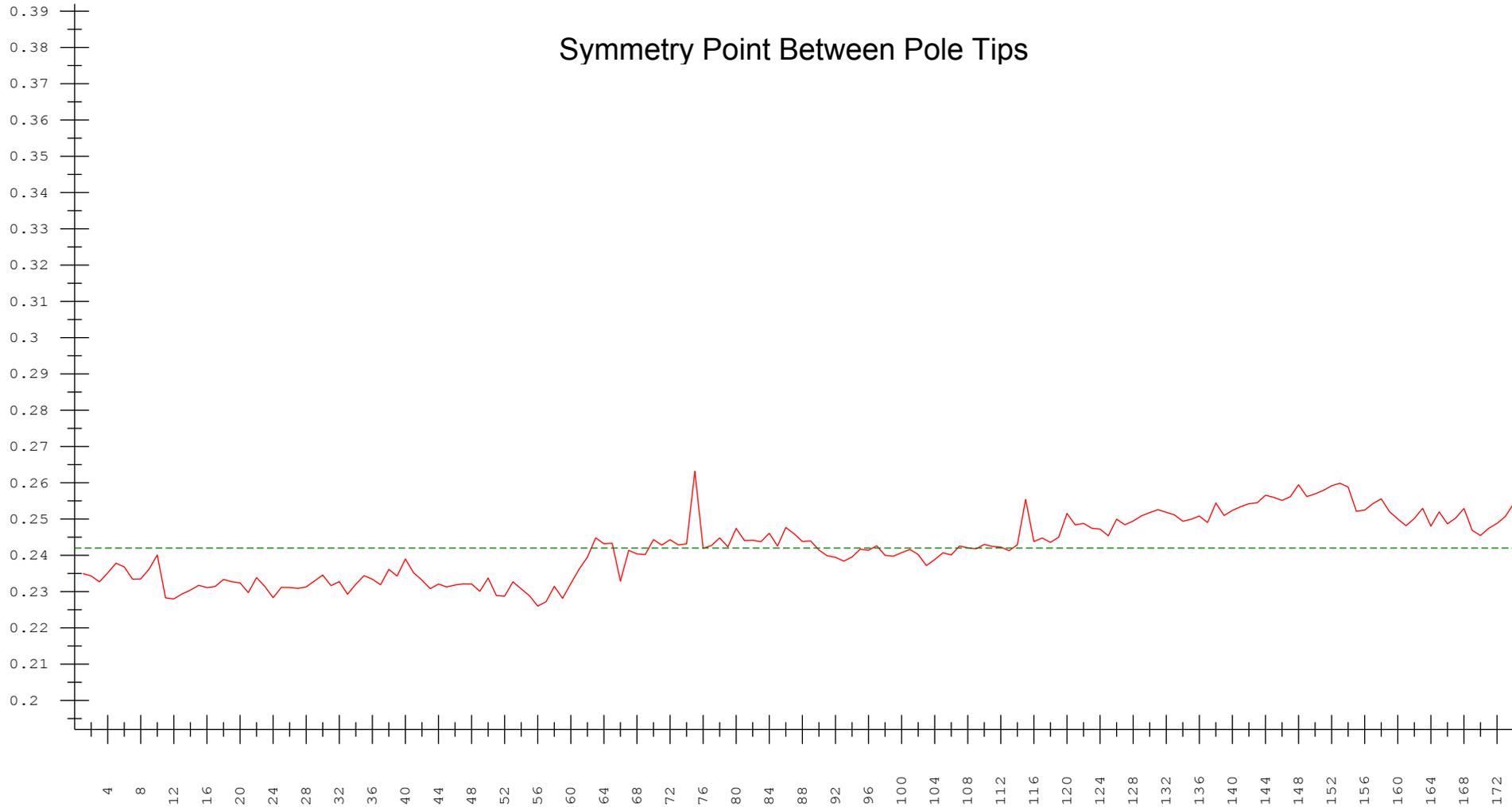02-FEB-2018
S/N =   005
D/S=   0001
Run=   02

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2420

Step Between Measured Pole Tips =   1

Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 100.0002   US Encoder = 100.0003   DS Encoder = 100.0002

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D/S=   0001
Run=   02

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	5.1469	5.1722	5.2361	5.2620
Bottom	-4.6888	-4.7027	-4.7378	-4.7521

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.2045	-4.7204	9.9249	0.2420

Additional Calculated Values

Bottom Pole #1 Z Value	979.331
Top Jaw Pitch (mrad)	0.034
Bottom Jaw Pitch(mrad)	-0.019
Minimum Effective Gap	9.820
Reference Block Gap	6.808

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 100.0002   US Encoder = 100.0003   DS Encoder = 100.0002

02-FEB-2018
S/N = 005
D/S= 0001
Run= 02