Top Jaw Pole Tips

Y Value

Pole Tip Num. ---->

Mean TOP = 4.5453   Regression Line Ang. (mrad) = 0.0010

Bottom Jaw Pole Tips

Minimum Effective Gap = 8.968
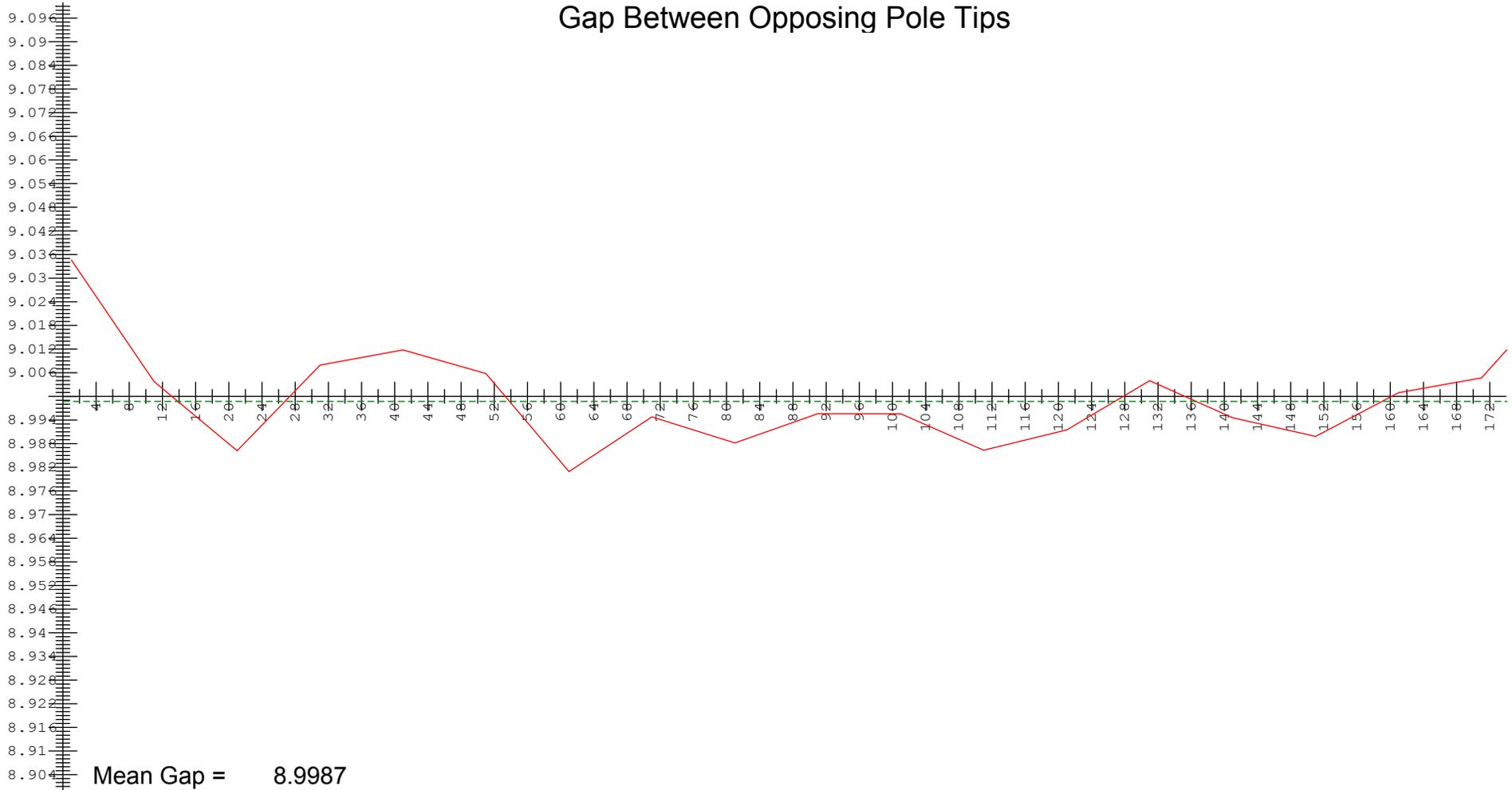
Y Value

Mean BTM = -4.4534   Regression Line Ang. (mrad) = 0.0016

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 10

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

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LCLS II - SXR Undulator
Nominal Gap = 9
Gap Reading = 8.9995   US Encoder = 8.9995   DS Encoder = 8.9995

12-DEC-2017
S/N = 006
D/S = 0001
Run = 06

Gap Between Opposing Pole Tips

Mean Gap =   8.9987

Step Between Measured Pole Tips =   10   Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 9

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

Gap Reading = 8.9995   US Encoder = 8.9995   DS Encoder = 8.9995
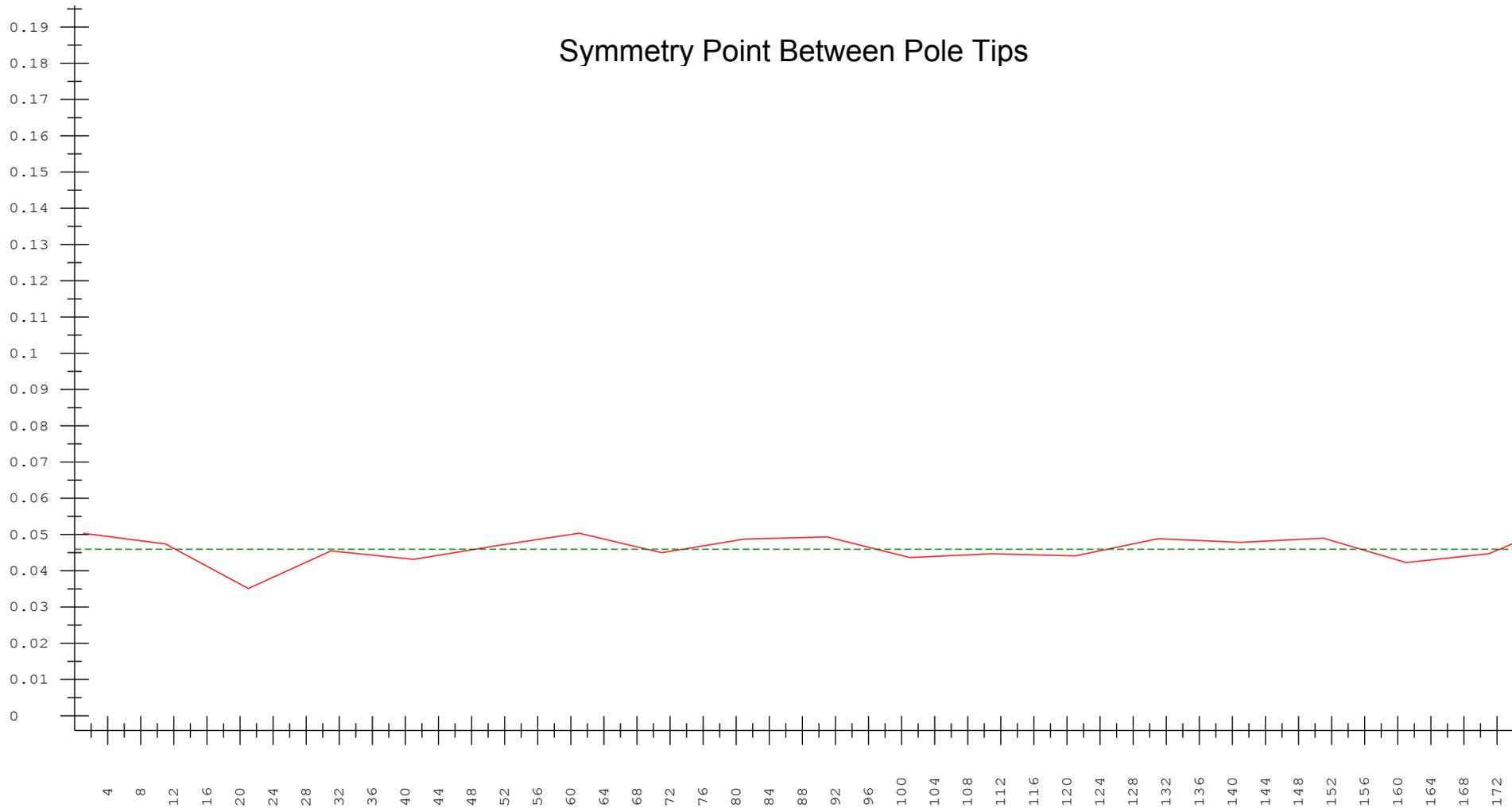
12-DEC-2017
S/N =   006
D/S=   0001
Run=   06

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0459

Step Between Measured Pole Tips =   10

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 9

Gap Reading = 8.9995   US Encoder = 8.9995   DS Encoder = 8.9995

12-DEC-2017
S/N =   006
D/S=   0001
Run=   06

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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	4.5475	4.5468	4.5448	4.5441
Bottom	-4.4565	-4.4553	-4.4523	-4.4511

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.5453	-4.4534	8.9987	0.0459

Additional Calculated Vlaues

Bottom Pole #1 Z Value	979.309
Top Jaw Pitch (mrad)	0.001
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	8.968
Reference Block Gap	6.808

Dimensions in mm

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LCLS II - SXR Undulator
Nominal Gap = 9

Gap Reading = 8.9995   US Encoder = 8.9995   DS Encoder = 8.9995

12-DEC-2017
S/N = 006
D/S= 0001
Run= 06