Top Jaw Pole Tips

Y Value

Mean TOP = 3.6946   Regression Line Ang. (mrad) = 0.0026

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 7.364

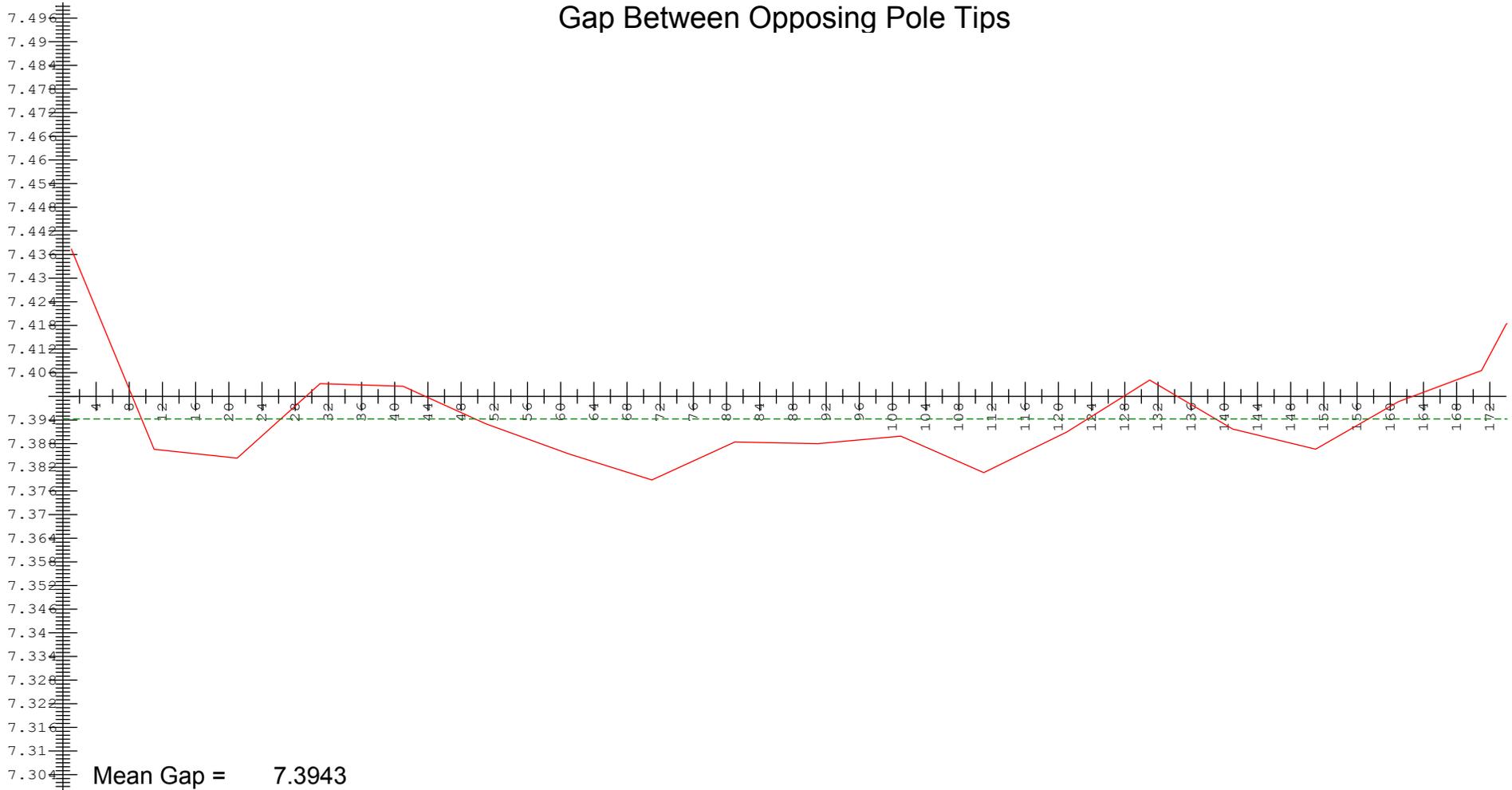Y Value

Mean BTM = -3.6997   Regression Line Ang. (mrad) = 0.0028

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

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

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 7.4
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

12-DEC-2017
S/N = 006
D/S = 0001
Run = 07

Gap Between Opposing Pole Tips

Mean Gap =   7.3943

Step Between Measured Pole Tips =   10

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY

METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 7.4

Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000
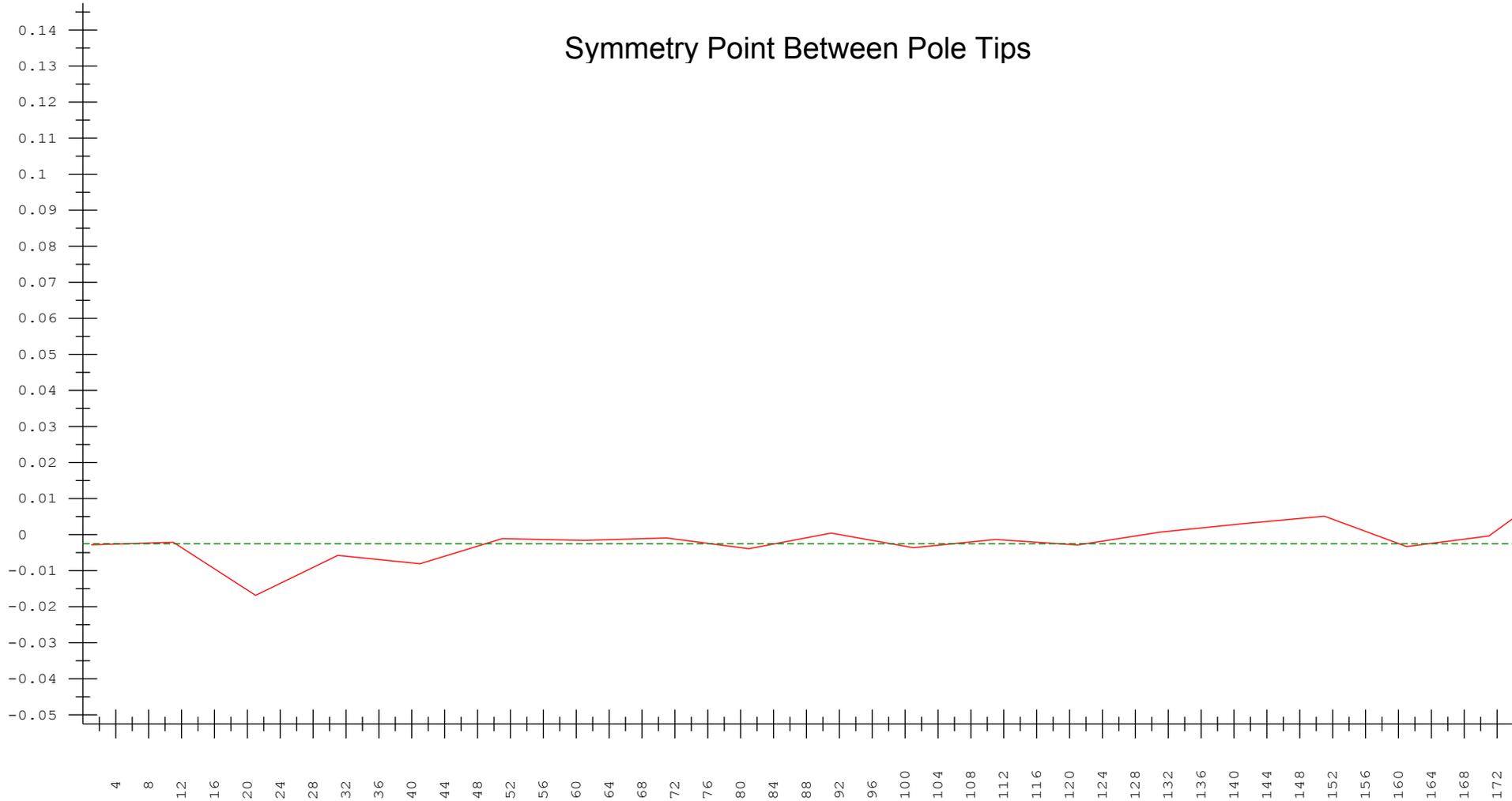
12-DEC-2017
S/N =   006
D/S=   0001
Run=   07

Symmetry Point Between Pole Tips

Mean Symmetry Value =   -0.0025

Step Between Measured Pole Tips =   10

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 7.4
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

12-DEC-2017
S/N =   006
D/S=   0001
Run=   07

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	3.6910	3.6930	3.6979	3.6999
Bottom	-3.7048	-3.7027	-3.6975	-3.6954

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.6946	-3.6997	7.3943	-0.0025

Additional Calculated Vlaues

Bottom Pole #1 Z Value	979.309
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	0.003
Minimum Effective Gap	7.364
Reference Block Gap	6.808

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 7.4
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

12-DEC-2017
S/N =   006
D/S=   0001
Run=   07