Top Jaw Pole Tips

Y Dev.from Mean

10^{-3}

Mean TOP = 3.7207   Regression Line Ang. (mrad) = 0.0027

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap = 7.367

Y Dev.from Mean

10^{-3}

Mean BTM = -3.6726   Regression Line Ang. (mrad) = 0.0020

Y Value Scales Centered on Mean Values   Regression Line Through Points = ————
Step Between Measured Pole Tips = 5   Dimensions in mm

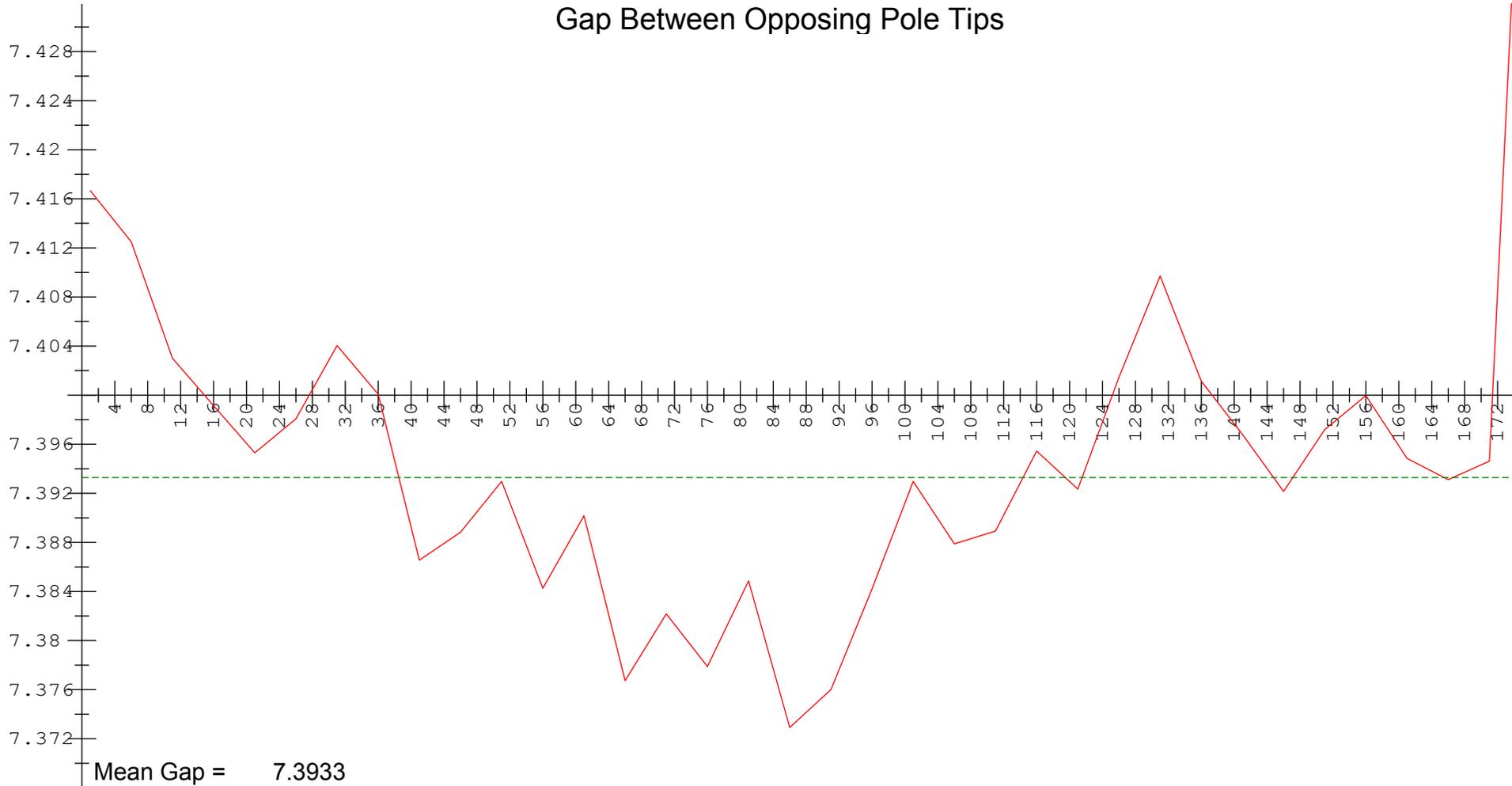**LCLS II - SXR Undulator**

Nominal Gap = 7.4   Nominal Taper = 0.000

Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

17-MAY-2018
S/N = 010
D/S = 0001
Run = 14

Gap Between Opposing Pole Tips

Mean Gap =   7.3933

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 7.4   Nominal Taper = 0.000

Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

SLAC NATIONAL ACCELERATOR LABORATORY

METROLOGY

17-MAY-2018
S/N =   010
D/S=   0001
Run=   14

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0240

Step Between Measured Pole Tips =   5

Dimensions in mm

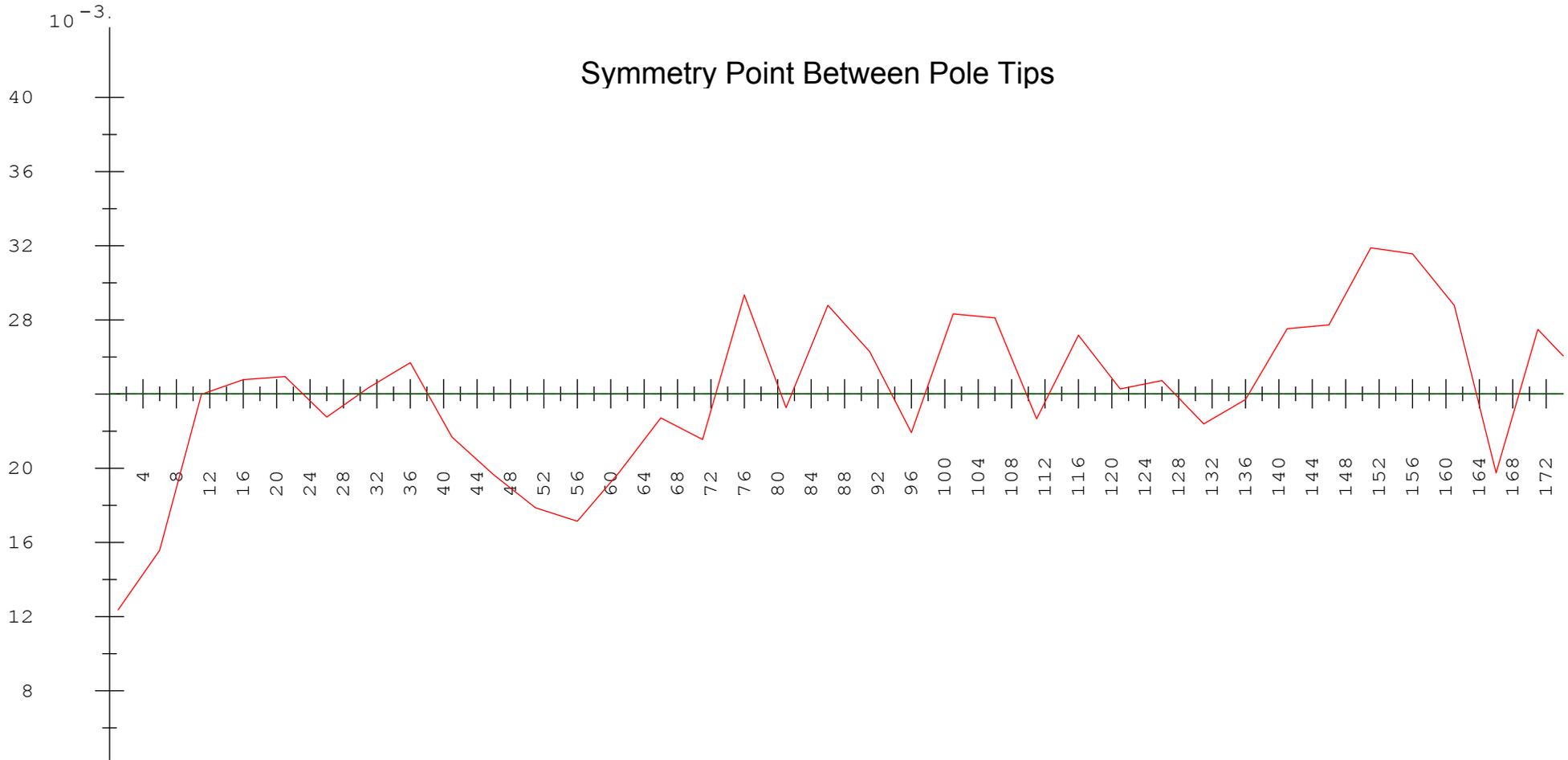|			
SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY	**LCLS II - SXR Undulator** Nominal Gap = 7.4 Nominal Taper = 0.000 Gap Reading = 7.4000 US Encoder = 7.4000 DS Encoder = 7.4000	17-MAY-2018 S/N = 010 D/S= 0001 Run= 14	

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	3.7167	3.7187	3.7238	3.7258
Bottom	-3.6766	-3.6751	-3.6714	-3.6698
Gap	7.3933			7.3957
Taper				0.0024

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
3.7207	-3.6726	7.3933	0.0240

Additional Calculated Values

Bottom Pole #1 Z Value	979.704
Top Jaw Pitch (mrad)	0.003
Bottom Jaw Pitch(mrad)	0.002
Minimum Effective Gap	7.367
Reference Block Gap	6.802

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 7.4   Nominal Taper = 0.000
Gap Reading = 7.4000   US Encoder = 7.4000   DS Encoder = 7.4000

17-MAY-2018
S/N = 010
D/S= 0001
Run= 14