Top Jaw Pole Tips

Y Dev. from Mean

Pole Tip Num. ---->

Mean TOP = 7.6008   Regression Line Ang. (mrad) = 0.0056

Bottom Jaw Pole Tips

Minimum Effective Gap = 14.992

Y Dev. from Mean

Mean BTM = -7.4205   Regression Line Ang. (mrad) = 0.0045

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 5

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

SLAC
NATIONAL ACCELERATOR LABORATORY
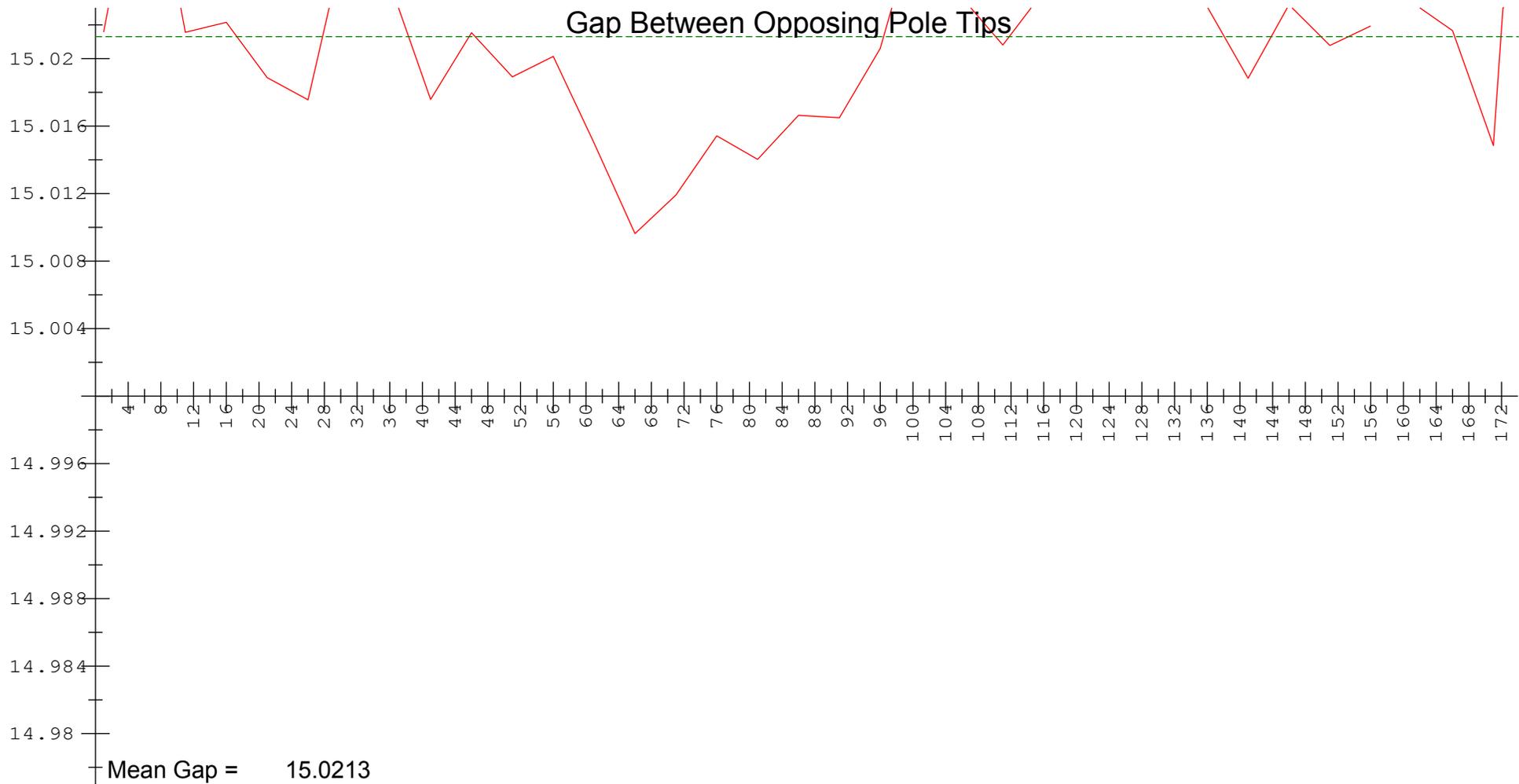METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 15   Nominal Taper = 0.000
Gap Reading = 15.0000   US Encoder = 15.0000   DS Encoder = 15.0001

16-MAY-2018
S/N = 010
D/S = 0001
Run = 11

Gap Between Opposing Pole Tips

Mean Gap =   15.0213
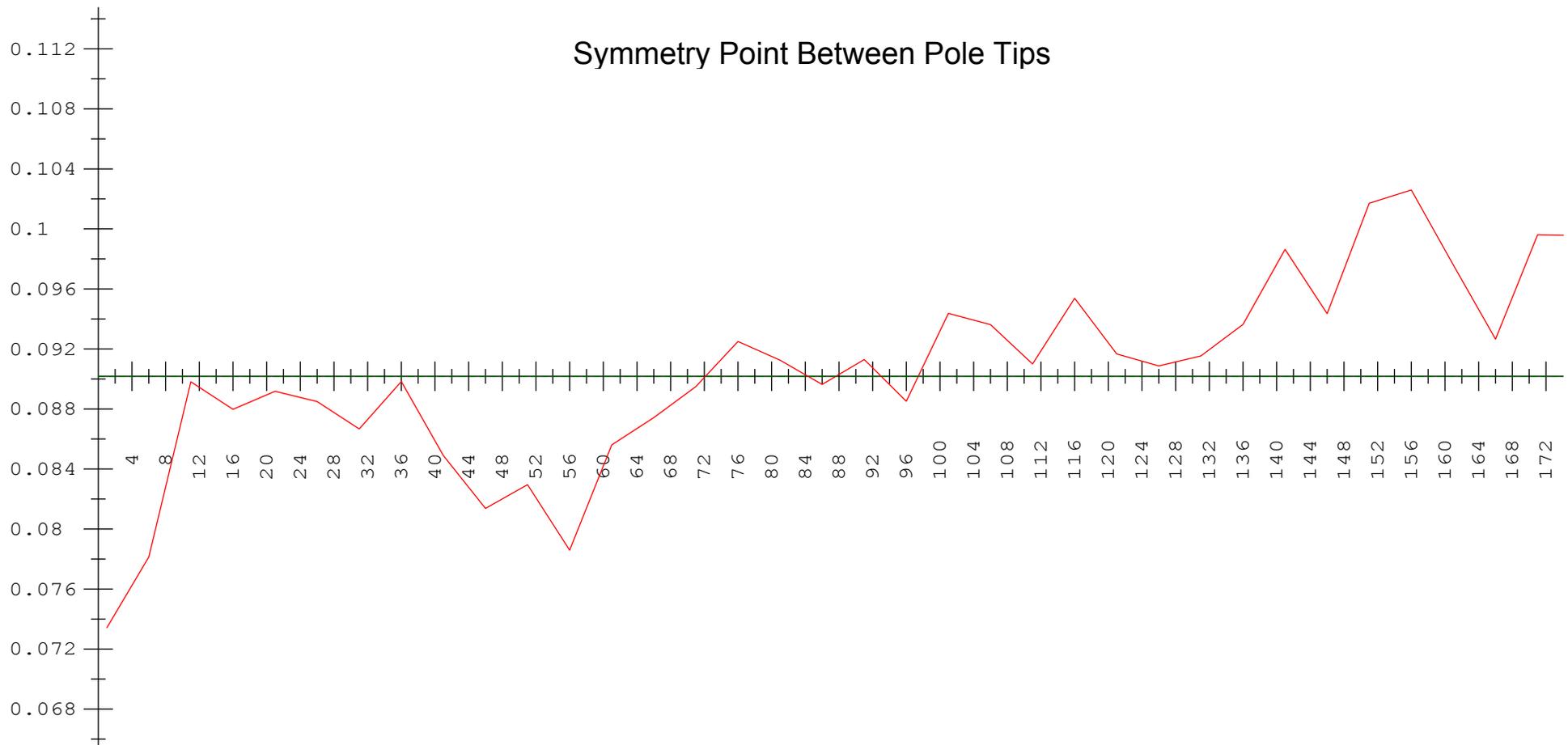
Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 15   Nominal Taper = 0.000

Gap Reading = 15.0000   US Encoder = 15.0000   DS Encoder = 15.0001

16-MAY-2018
S/N =   010
D/S=   0001
Run=   11

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.0902

Step Between Measured Pole Tips =   5

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 15   Nominal Taper = 0.000
Gap Reading = 15.0000   US Encoder = 15.0000   DS Encoder = 15.0001

16-MAY-2018
S/N =   010
D/S=   0001
Run=   11

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	7.5917	7.5959	7.6064	7.6107
Bottom	-7.4282	-7.4248	-7.4163	-7.4128
Gap	15.0199			15.0235
Taper				0.0036

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
7.6008	-7.4205	15.0213	0.0902

Additional Calculated Values

Bottom Pole #1 Z Value	979.704
Top Jaw Pitch (mrad)	0.006
Bottom Jaw Pitch(mrad)	0.005
Minimum Effective Gap	14.992
Reference Block Gap	6.802

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 15   Nominal Taper = 0.000
Gap Reading = 15.0000   US Encoder = 15.0000   DS Encoder = 15.0001

16-MAY-2018
S/N = 010
D/S= 0001
Run= 11