Top Jaw Pole Tips

Mean TOP = 6.5948   Regression Line Ang. (mrad) = -0.0008

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 12.834
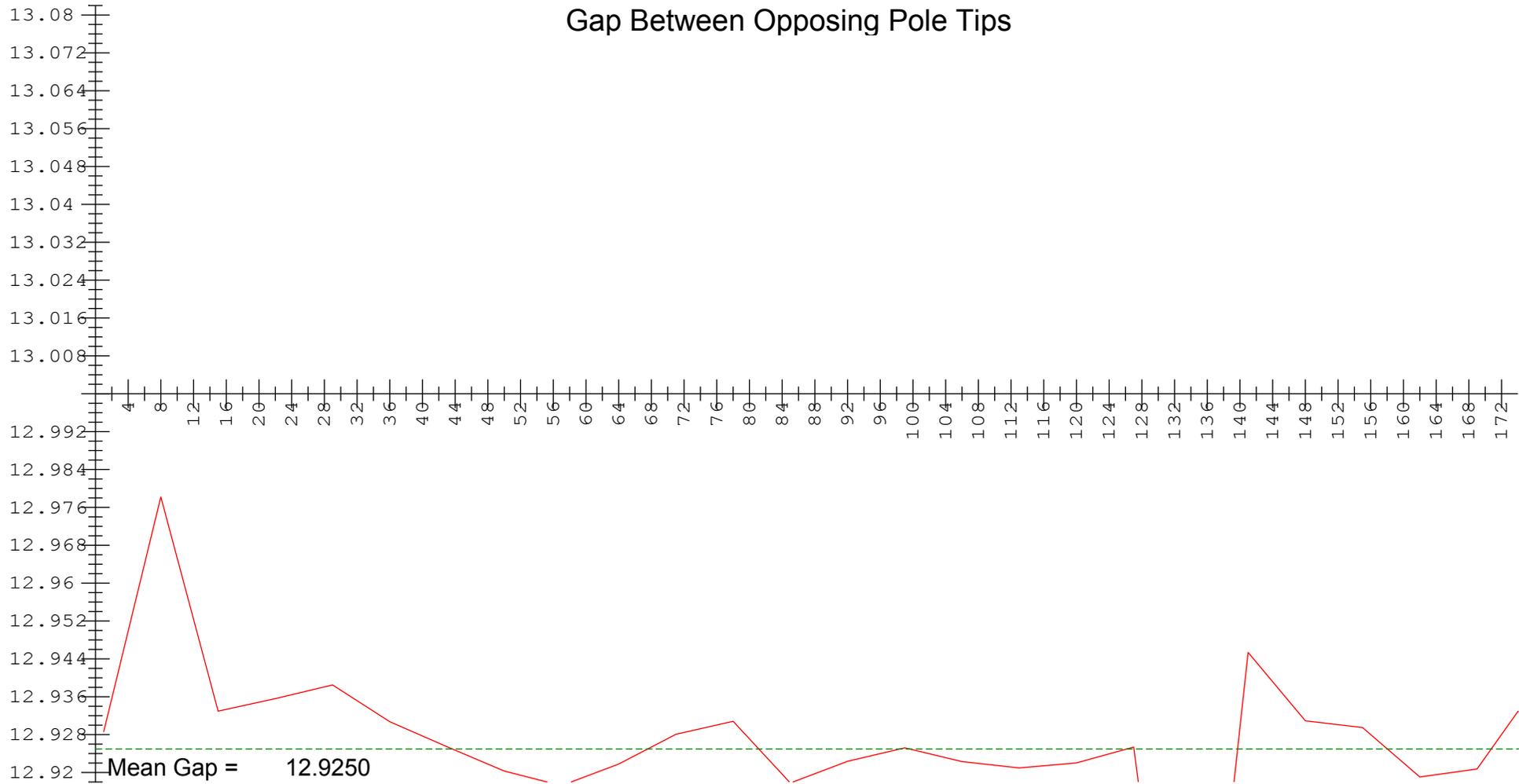

Mean BTM = -6.3302   Regression Line Ang. (mrad) = 0.0059

Y Value Scales Centered on Mean Values

Step Between Measured Pole Tips = 7

Regression Line Through Points =

Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 13   Nominal Taper = 0.000

Gap Reading = 13.0000   US Encoder = 13.0000   DS Encoder = 13.0000

13-SEP-2018
S/N = 001
D/S= 0004
Run= 8

Gap Between Opposing Pole Tips

Mean Gap =   12.9250

Step Between Measured Pole Tips =   7

Dimensions in mm
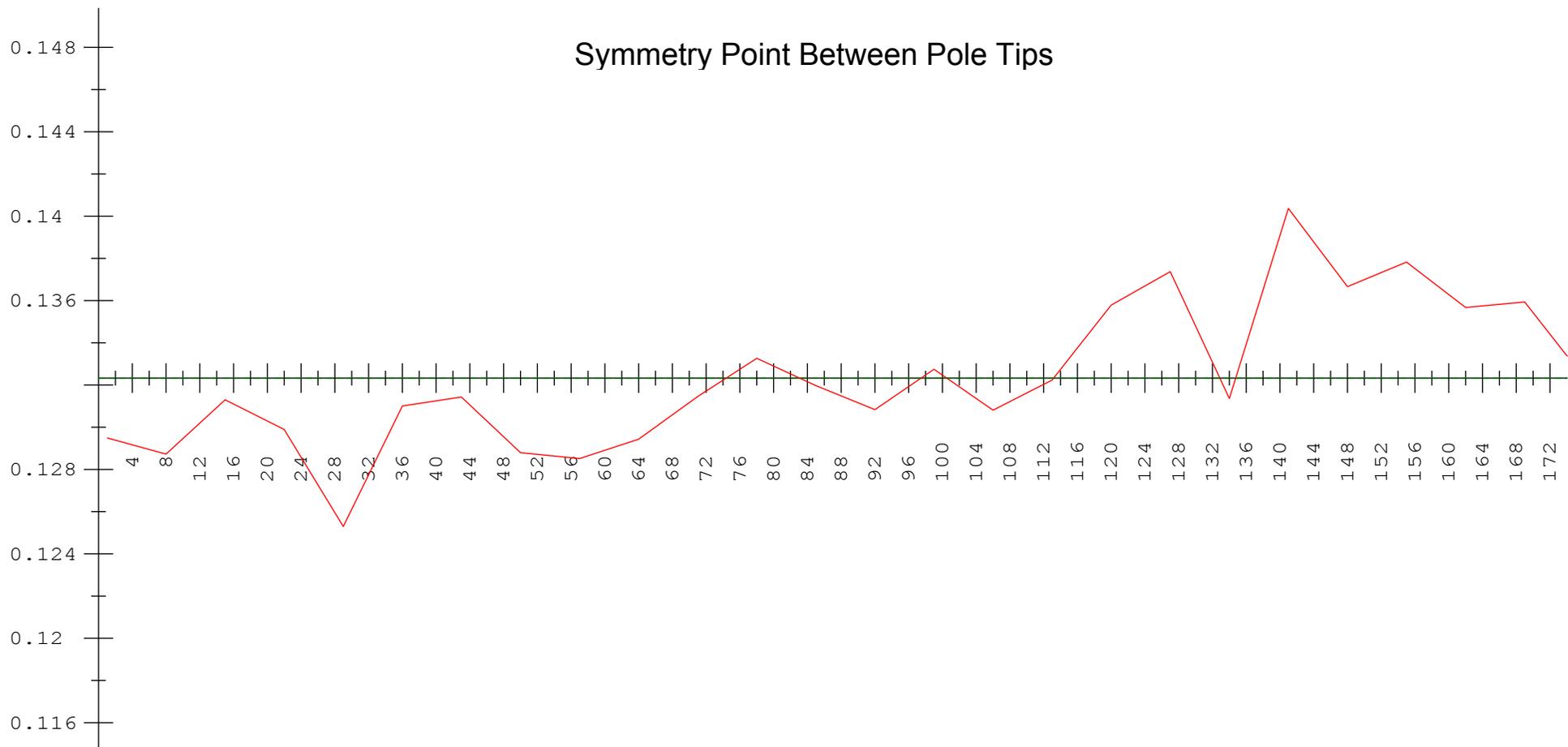
SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0.000
Gap Reading = 13.0000   US Encoder = 13.0000   DS Encoder = 13.0000

13-SEP-2018
S/N =   001
D/S=   0004
Run=   8

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.1323

Step Between Measured Pole Tips =   7

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 13   Nominal Taper = 0.000

Gap Reading = 13.0000   US Encoder = 13.0000   DS Encoder = 13.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

13-SEP-2018
S/N =   001
D/S=   0004
Run=   8

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	6.5964	6.5958	6.5943	6.5936
Bottom	-6.3403	-6.3360	-6.3249	-6.3204
Gap	12.9367			12.9141
Taper				-0.0227

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.5948	-6.3302	12.9250	0.1323

Additional Calculated Values

Bottom Pole #1 Z Value	979.975
Top Jaw Pitch (mrad)	-0.001
Bottom Jaw Pitch(mrad)	0.006
Minimum Effective Gap	12.834
Reference Block Gap	6.807

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13   Nominal Taper = 0.000
Gap Reading = 13.0000   US Encoder = 13.0000   DS Encoder = 13.0000

13-SEP-2018
S/N = 001
D/S= 0004
Run= 8