Top Jaw Pole Tips

Pole Tip Num. ---->

Mean TOP = 5.2138   Regression Line Ang. (mrad) = 0.0154

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.892

Mean BTM = -4.7369   Regression Line Ang. (mrad) = 0.0143
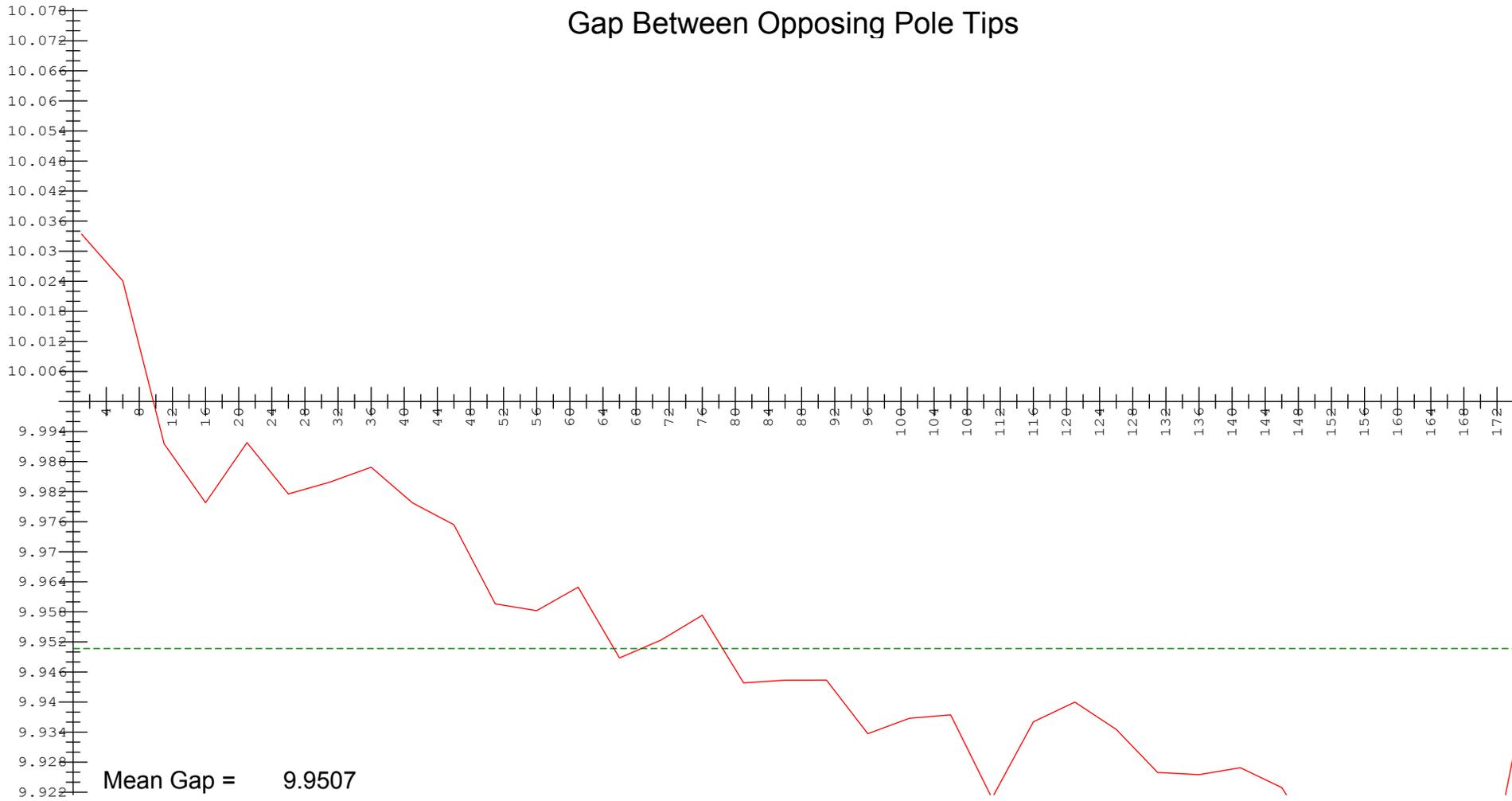
Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 5

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

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

09-MAR-2018
S/N = 007
D/S = 0001
Run = 20

Gap Between Opposing Pole Tips

Mean Gap =   9.9507

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

SLAC
NATIONAL ACCELERATOR LABORATORY
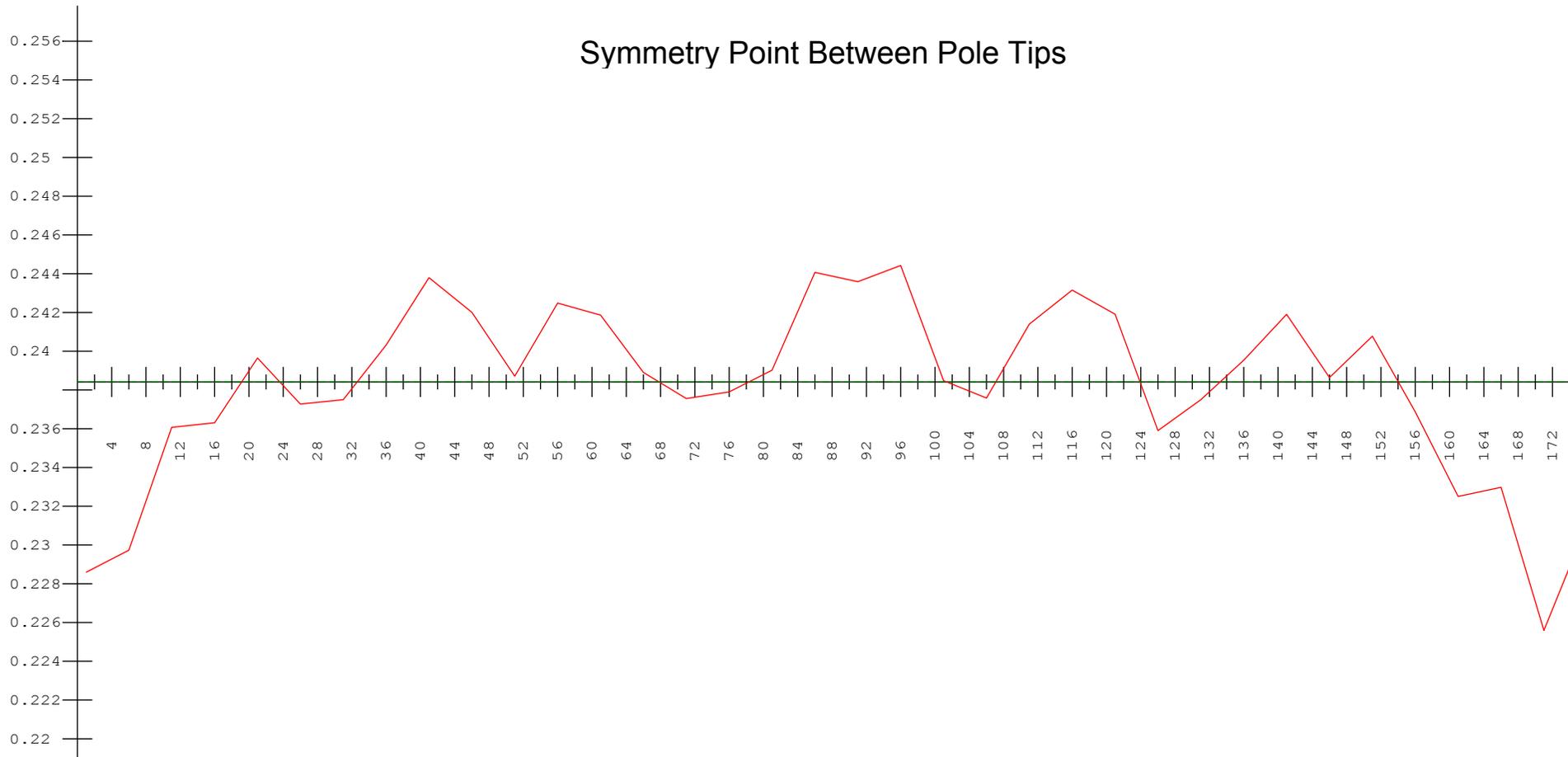METROLOGY

09-MAR-2018
S/N =   007
D/S=   0001
Run=   20

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2384

Step Between Measured Pole Tips =   5

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | LCLS II - SXR Undulator Nominal Gap = 10 Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000 | 09-MAR-2018 S/N =   007 D/S=   0001 Run=   20 |

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	5.2394	5.2280	5.1992	5.1875
Bottom	-4.7613	-4.7507	-4.7239	-4.7130
Gap	10.0007			9.9006
Taper				-0.1001

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.2138	-4.7369	9.9507	0.2384

Additional Calculated Values

Bottom Pole #1 Z Value	979.176
Top Jaw Pitch (mrad)	0.015
Bottom Jaw Pitch(mrad)	0.014
Minimum Effective Gap	9.892
Reference Block Gap	6.804

Dimensions in mm

SLAC
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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

09-MAR-2018
S/N = 007
D/S= 0001
Run= 20