Top Jaw Pole Tips

Mean TOP =   5.2092   Regression Line Ang. (mrad) =   0.0121

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap =   9.834

Mean BTM =   -4.7374   Regression Line Ang. (mrad) =   0.0010

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

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

SLAC
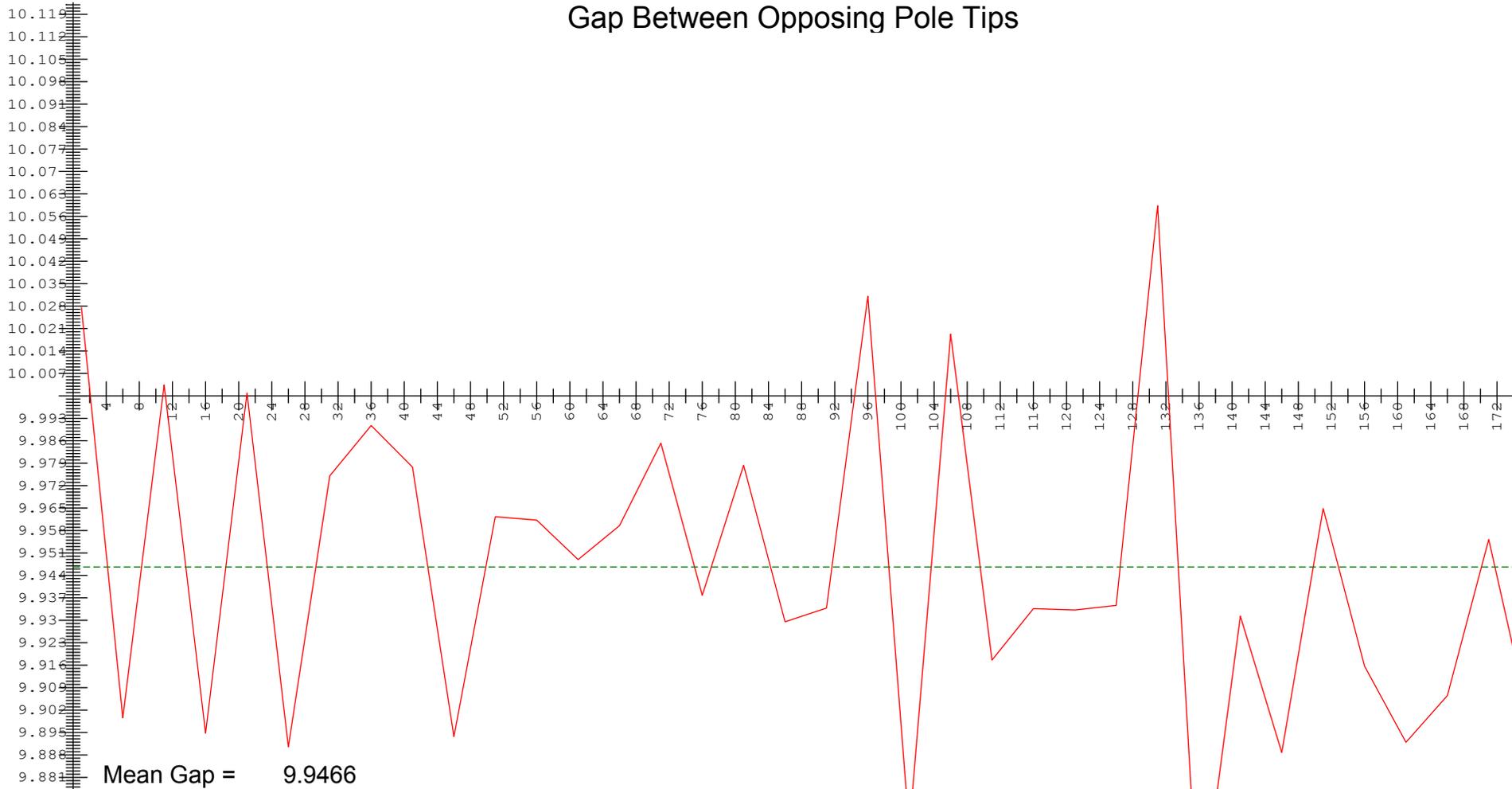NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 9.9500   US Encoder = 10.0000   DS Encoder = 9.9001

20-FEB-2018
S/N =   005
D/S=   0001
Run=   07

Gap Between Opposing Pole Tips

Mean Gap =   9.9466

Step Between Measured Pole Tips =   5   Dimensions in mm

SLAC
NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10
Gap Reading = 9.9500   US Encoder = 10.0000   DS Encoder = 9.9001
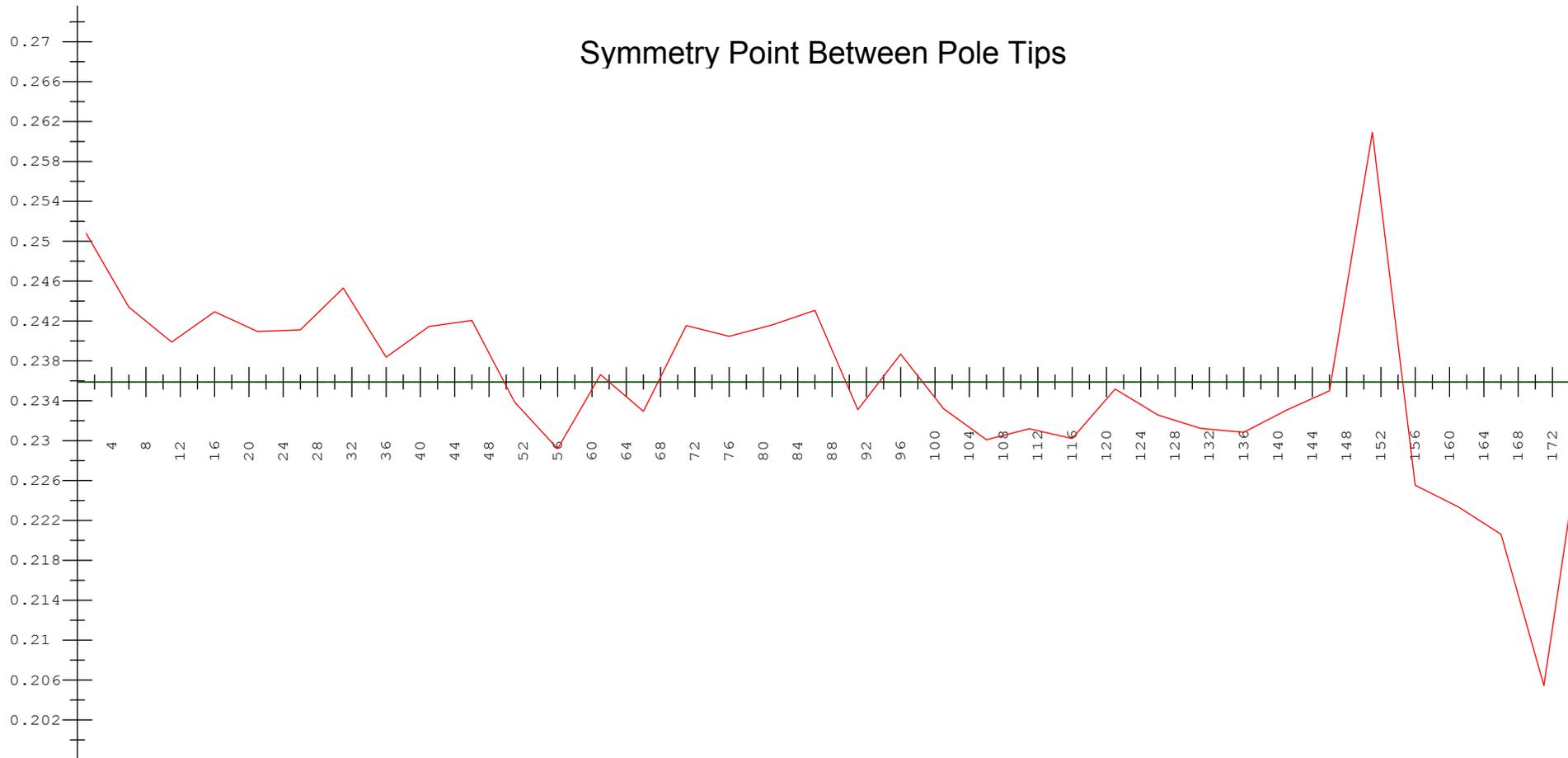
20-FEB-2018
S/N =   005
D/S=   0001
Run=   07

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2359

Step Between Measured Pole Tips =   5

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | **LCLS II - SXR Undulator** Nominal Gap = 10 Gap Reading = 9.9500   US Encoder = 10.0000   DS Encoder = 9.9001 | 20-FEB-2018 S/N =   005 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	5.2291	5.2201	5.1975	5.1883
Bottom	-4.7391	-4.7384	-4.7366	-4.7358
Gap	9.9682			9.9241
Taper				-0.0440

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.2092	-4.7374	9.9466	0.2359

Additional Calculated Values

Bottom Pole #1 Z Value	979.292
Top Jaw Pitch (mrad)	0.012
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	9.834
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10
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20-FEB-2018
S/N = 005
D/S= 0001
Run= 07