Top Jaw Pole Tips

Y Value

Mean TOP =   6.7251   Regression Line Ang. (mrad) =   0.0001

Pole Tip Num. ---->   Bottom Jaw Pole Tips   Minimum Effective Gap =   12.988

Y Value

Mean BTM =   -6.2847   Regression Line Ang. (mrad) =   0.0009

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

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000

08-MAR-2018
S/N =   007
D/S=   0001
Run=   13

Gap Between Opposing Pole Tips

Mean Gap =   13.0098

Step Between Measured Pole Tips =   5

Dimensions in mm

LCLS II - SXR Undulator

Nominal Gap = 13

Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000
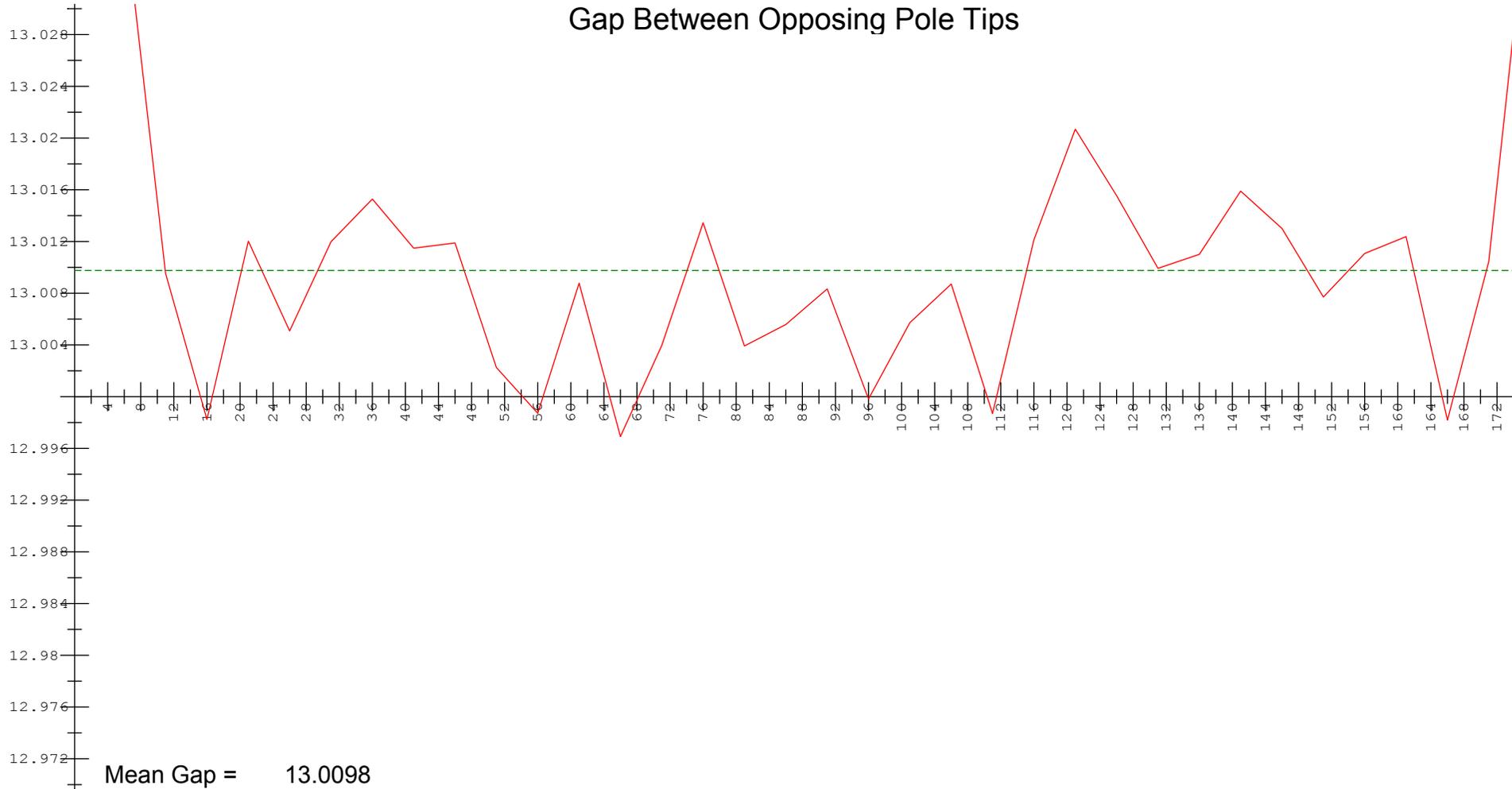
SLAC
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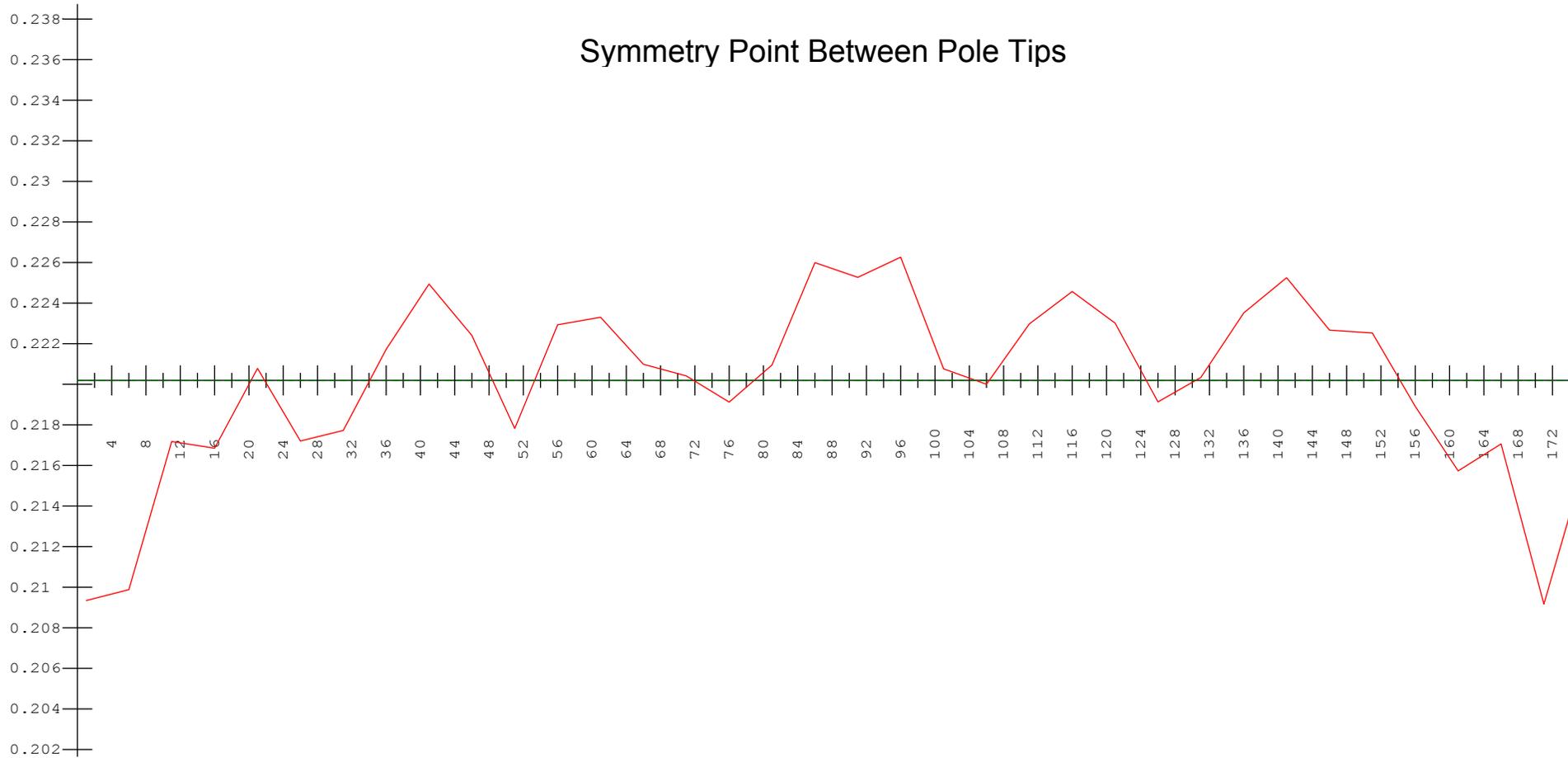METROLOGY

08-MAR-2018
S/N =   007
D/S=   0001
Run=   13

Symmetry Point Between Pole Tips

Mean Symmetry Value =   0.2202

Step Between Measured Pole Tips =   5

Dimensions in mm

| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | LCLS II - SXR Undulator
Nominal Gap = 13
Gap Reading = 10.0000   US Encoder = 10.0000   DS Encoder = 10.0000 | 08-MAR-2018
S/N =   007
D/S=   0001
Run=   13 |

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	6.7249	6.7250	6.7253	6.7254
Bottom	-6.2866	-6.2860	-6.2843	-6.2837
Gap	13.0115			13.0090
Taper				-0.0025

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
6.7251	-6.2847	13.0098	0.2202

Additional Calculated Values

Bottom Pole #1 Z Value	979.176
Top Jaw Pitch (mrad)	0.000
Bottom Jaw Pitch(mrad)	0.001
Minimum Effective Gap	12.988
Reference Block Gap	6.804

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 13

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

08-MAR-2018
S/N = 007
D/S= 0001
Run= 13