Top Jaw Pole Tips

10^{-3}

Y Dev. from Mean

Mean TOP = 5.0996   Regression Line Ang. (mrad) = 0.0104

Pole Tip Num. ---->

Bottom Jaw Pole Tips

Minimum Effective Gap = 9.945

10^{-3}

Y Dev. from Mean

Mean BTM = -4.9034   Regression Line Ang. (mrad) = 0.0110

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

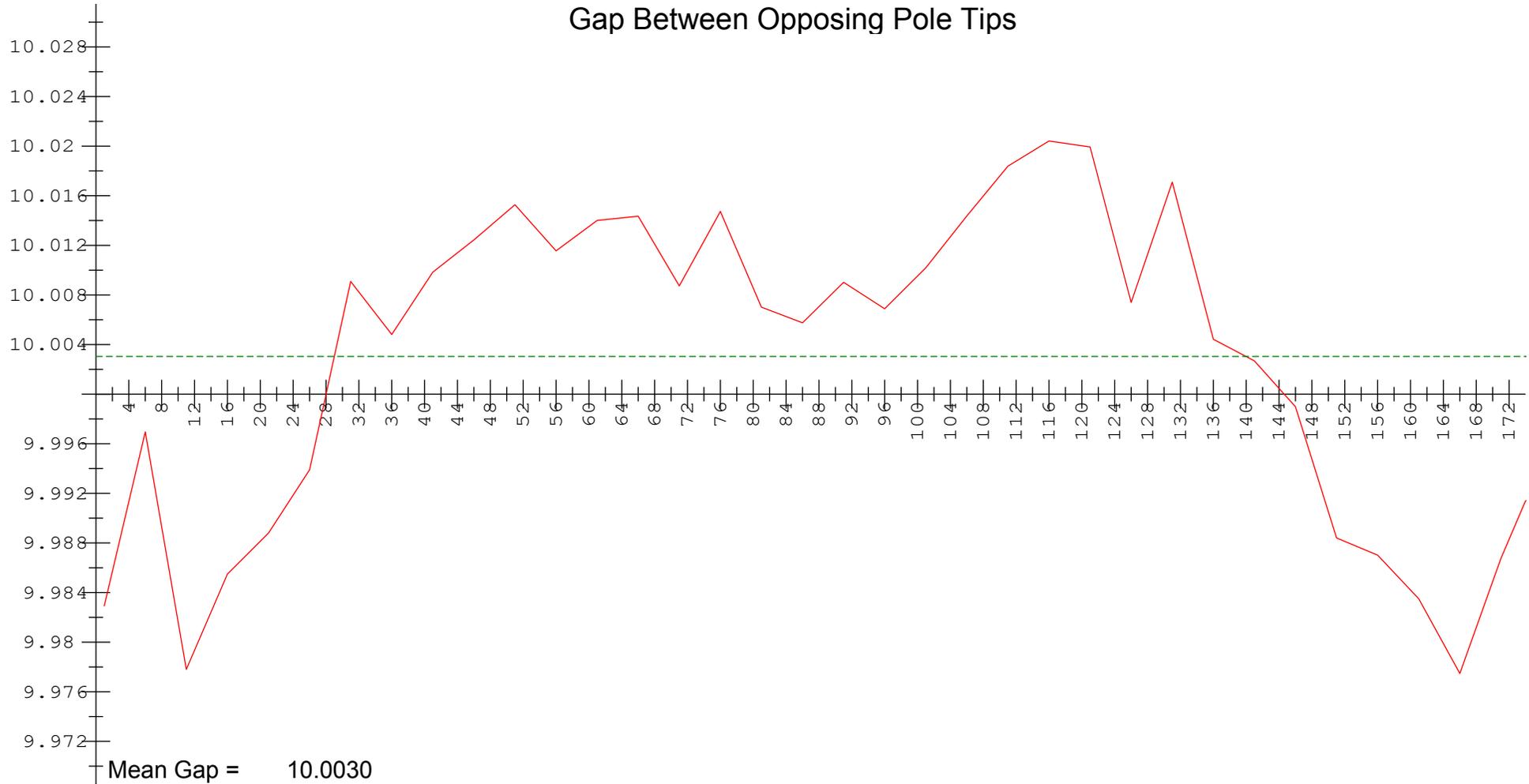Regression Line Through Points =
Dimensions in mm

SLAC
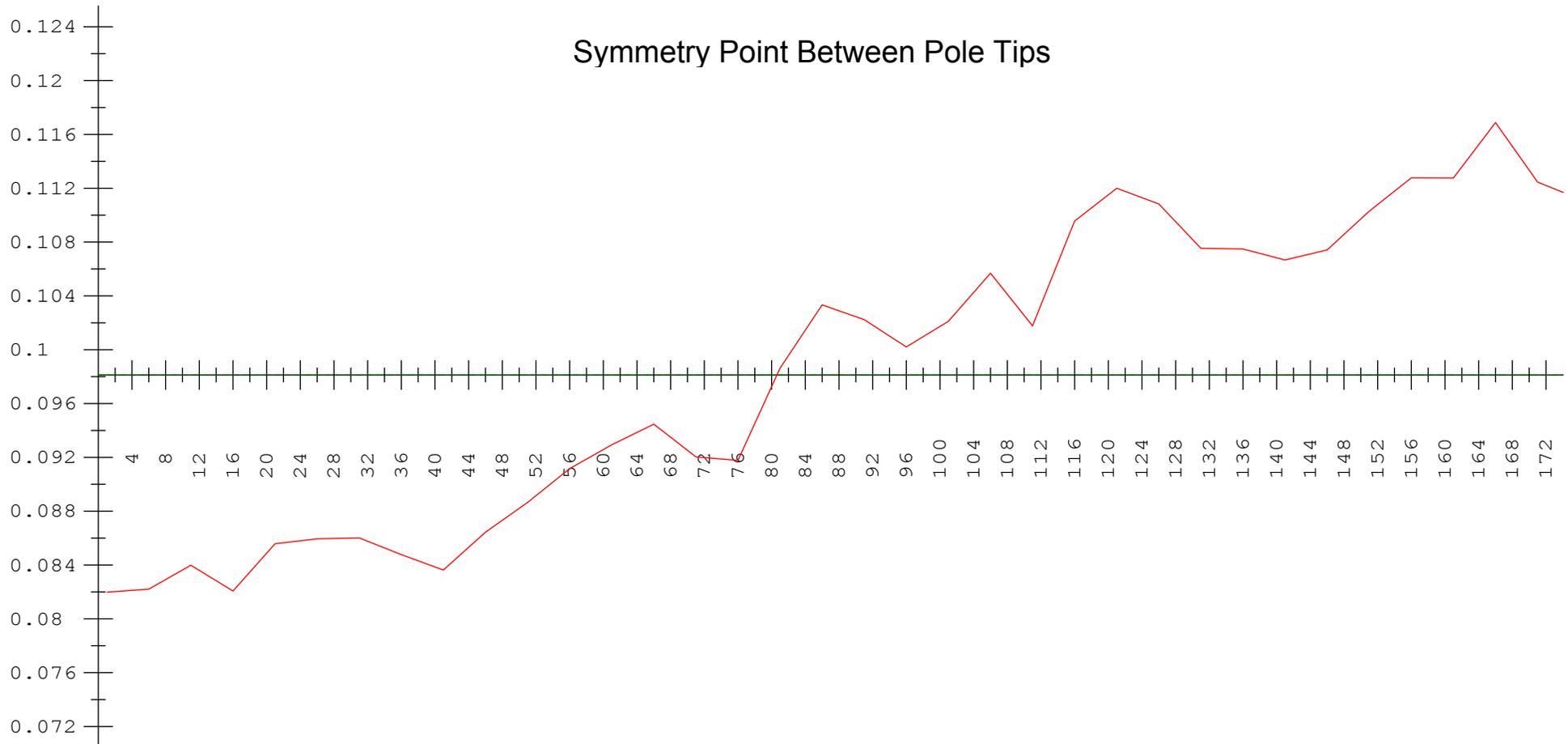NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0001   US Encoder = 10.0001   DS Encoder = 10.0001

01-OCT-2018
S/N = 015
D/S = 0001
Run = 4

Gap Between Opposing Pole Tips

Mean Gap =   10.0030

Step Between Measured Pole Tips =   5   Dimensions in mm

| | **LCLS II - SXR Undulator** | 01-OCT-2018 |
| SLAC NATIONAL ACCELERATOR LABORATORY METROLOGY | Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0001   US Encoder = 10.0001   DS Encoder = 10.0001 | S/N =   015
D/S=   0001
Run=   4 |

Symmetry Point Between Pole Tips

Mean Symmetry Value = 0.0981

Step Between Measured Pole Tips = 5

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0001   US Encoder = 10.0001   DS Encoder = 10.0001

01-OCT-2018
S/N = 015
D/S= 0001
Run= 4

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	5.0822	5.0899	5.1093	5.1171
Bottom	-4.9216	-4.9134	-4.8929	-4.8846
Gap	10.0038			10.0017
Taper				-0.0021

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0996	-4.9034	10.0030	0.0981

Additional Calculated Values

Bottom Pole #1 Z Value	980.409
Top Jaw Pitch (mrad)	0.010
Bottom Jaw Pitch(mrad)	0.011
Minimum Effective Gap	9.945
Reference Block Gap	6.807

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator
Nominal Gap = 10   Nominal Taper = 0.000
Gap Reading = 10.0001   US Encoder = 10.0001   DS Encoder = 10.0001

01-OCT-2018
S/N = 015
D/S= 0001
Run= 4