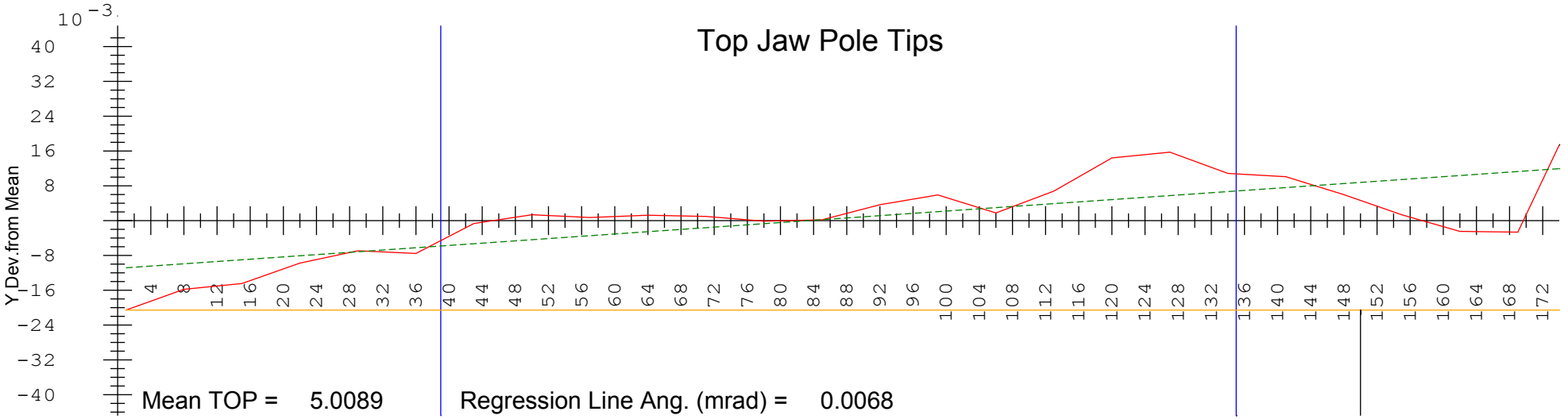
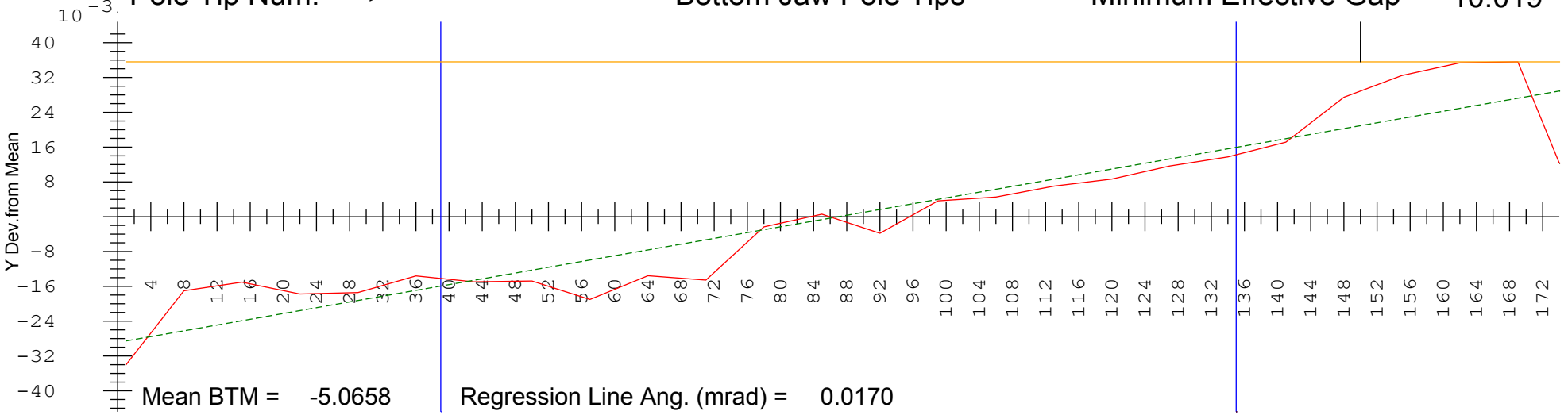


Pole Tip Num. ----> Minimum Effective Gap = 10.019



Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 7

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

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METROLOGY

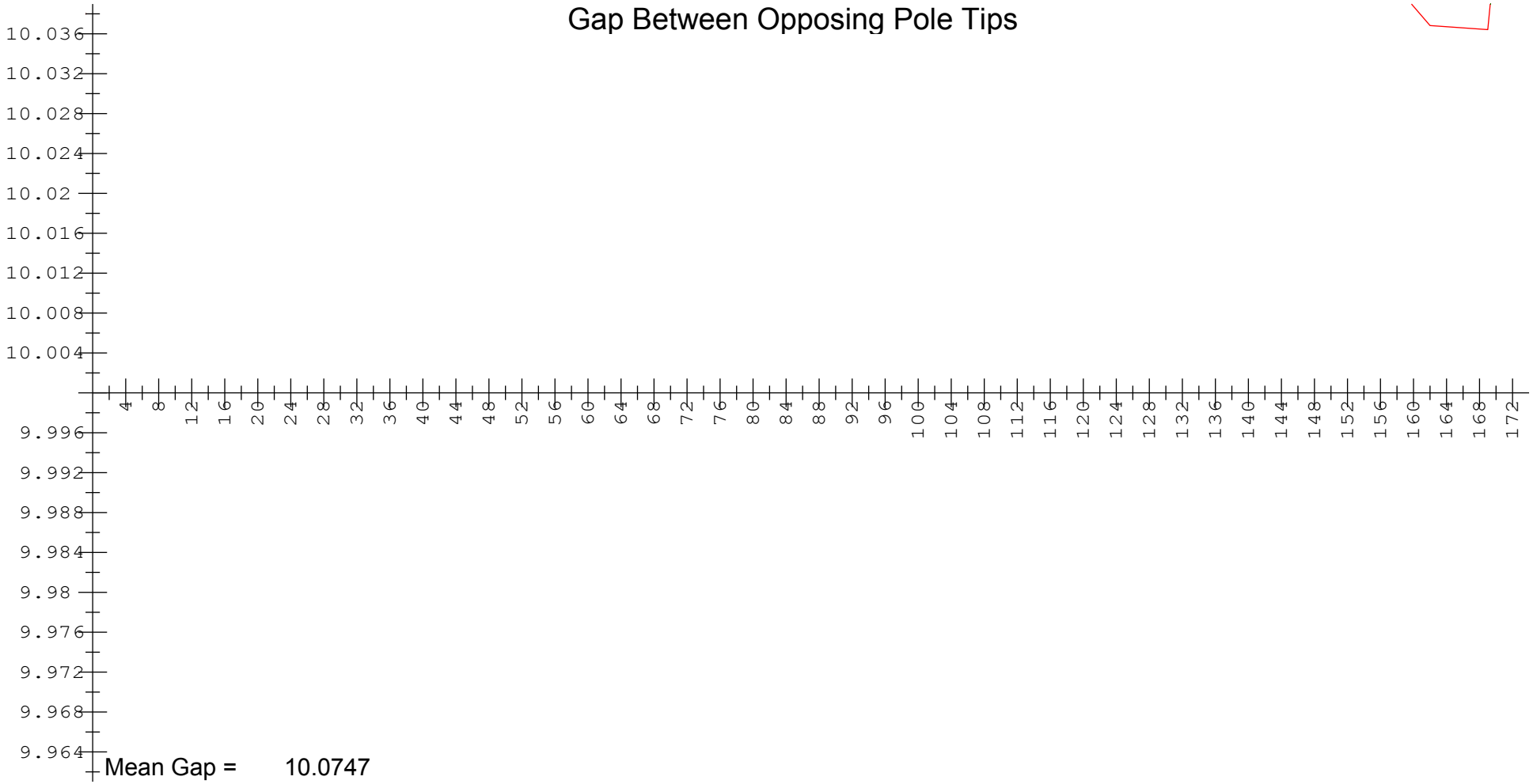
LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

04-APR-2019
S/N = 002
D/S= 0001
Run= 3

Gap Between Opposing Pole Tips



Mean Gap = 10.0747

Step Between Measured Pole Tips = 7

Dimensions in mm

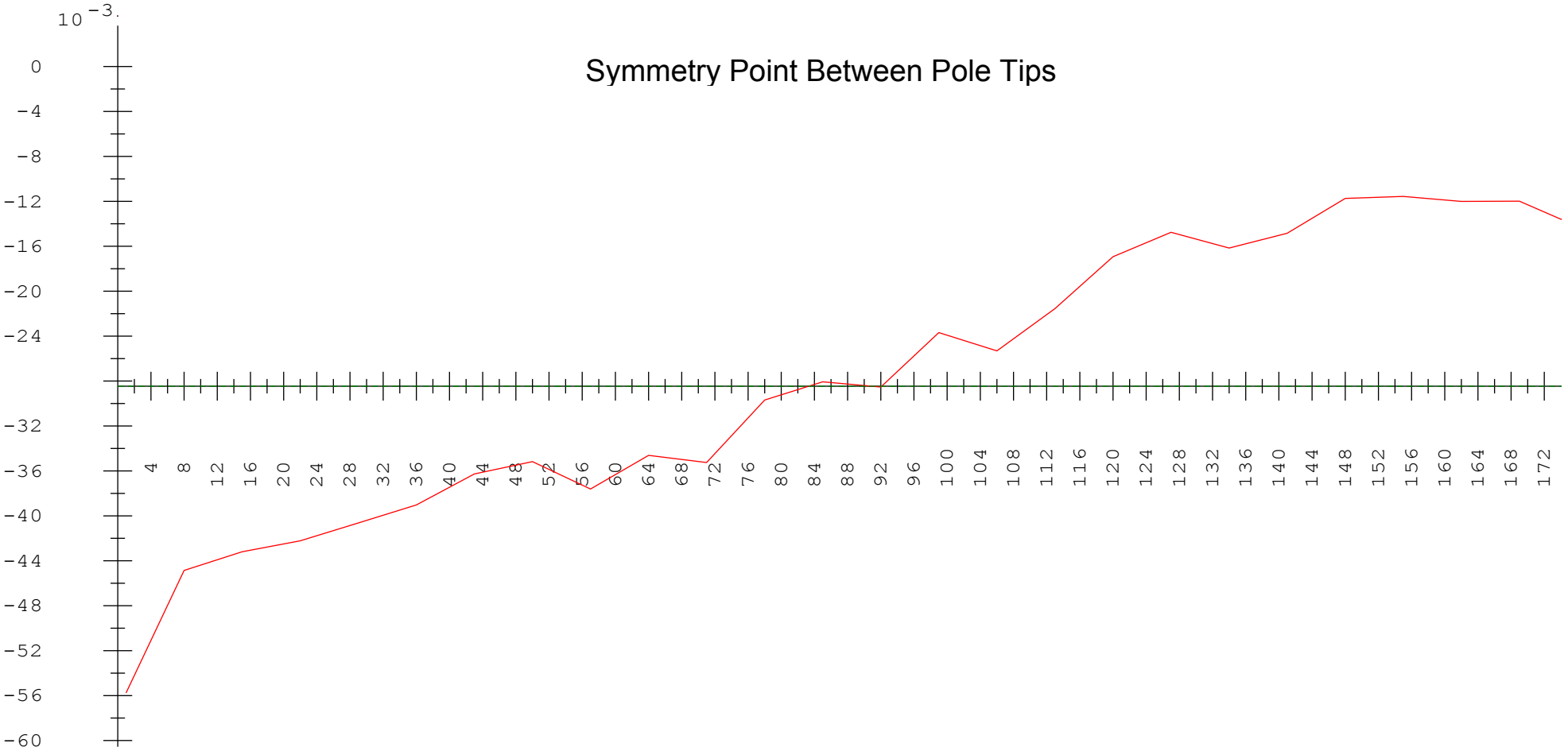
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

04-APR-2019
S/N = 002
D/S= 0001
Run= 3



Mean Symmetry Value = -0.0285

Step Between Measured Pole Tips = 7

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

04-APR-2019
S/N = 002
D/S= 0001
Run= 3

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	4.9980	5.0030	5.0157	5.0208
Bottom	-5.0943	-5.0817	-5.0499	-5.0369
Gap	10.0924			10.0577
Taper				-0.0346

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.0089	-5.0658	10.0747	-0.0285

Additional Calculated Values

Bottom Pole #1 Z Value	980.303
Top Jaw Pitch (mrad)	0.007
Bottom Jaw Pitch(mrad)	0.017
Minimum Effective Gap	10.019
Reference Block Gap	6.810

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000

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

04-APR-2019
S/N = 002
D/S= 0001
Run= 3