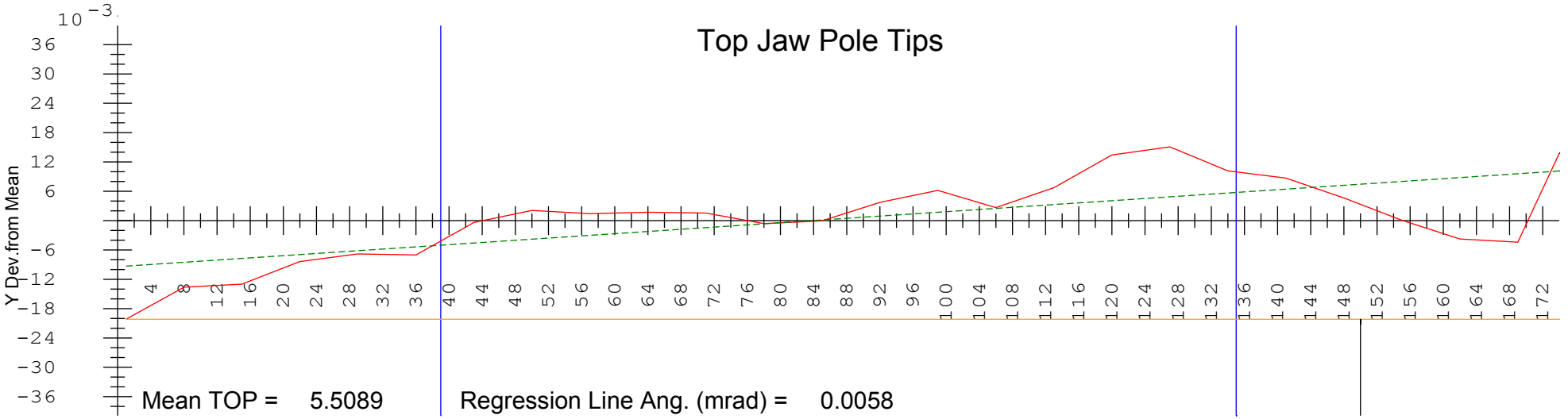
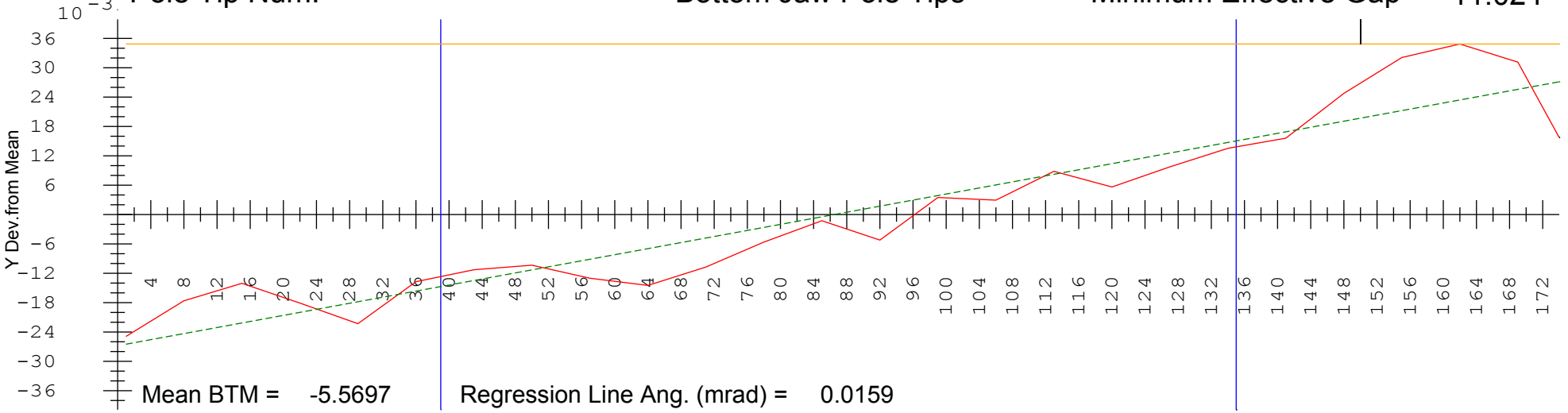


Pole Tip Num. ----> Bottom Jaw Pole Tips Minimum Effective Gap = 11.024



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

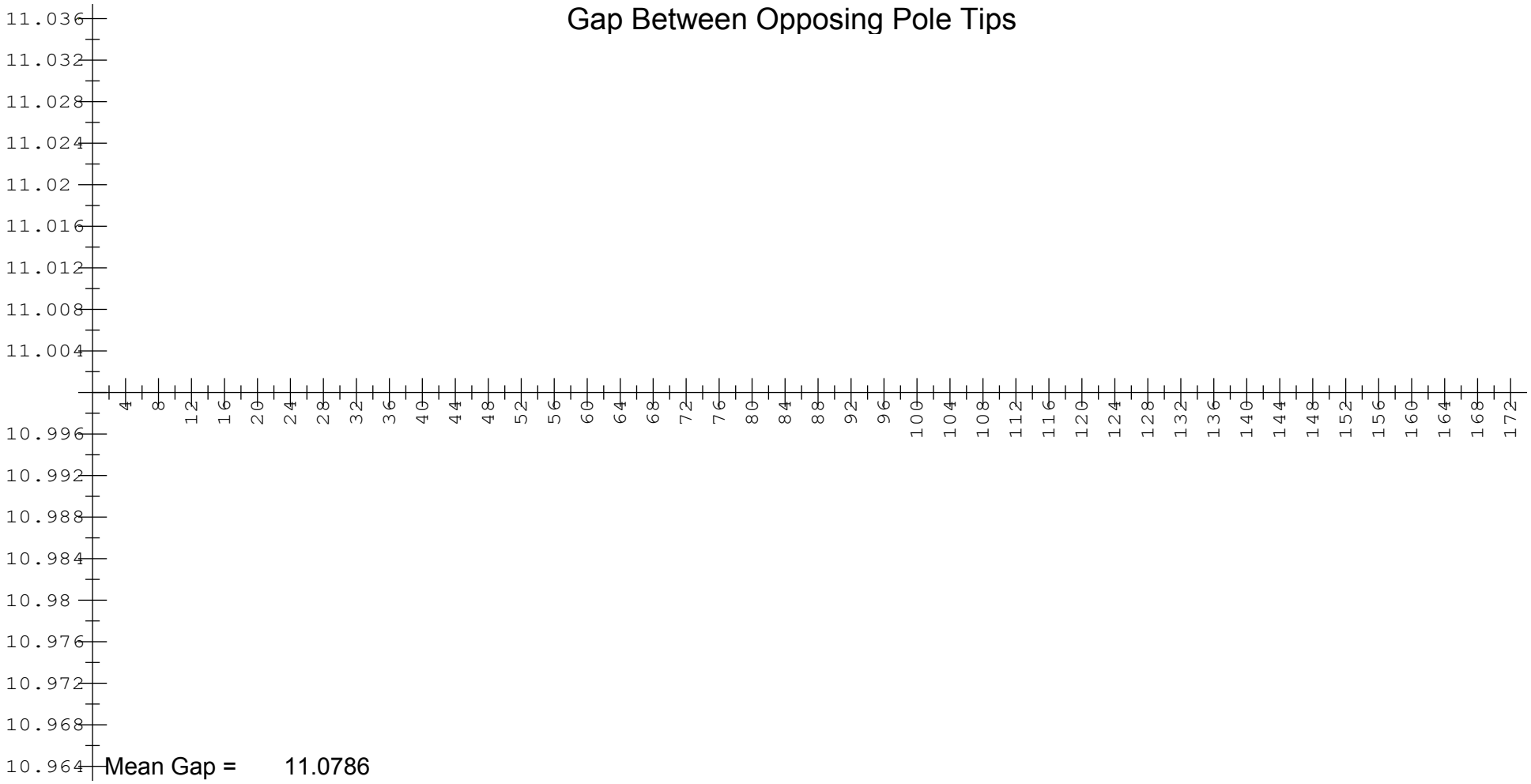
LCLS II - SXR Undulator

Nominal Gap = 11 Nominal Taper = 0.000

Gap Reading = 11.0000 US Encoder = 11.0001 DS Encoder = 11.0000

04-APR-2019
S/N = 002
D/S= 0001
Run= 4

Gap Between Opposing Pole Tips



Mean Gap = 11.0786

Step Between Measured Pole Tips = 7

Dimensions in mm

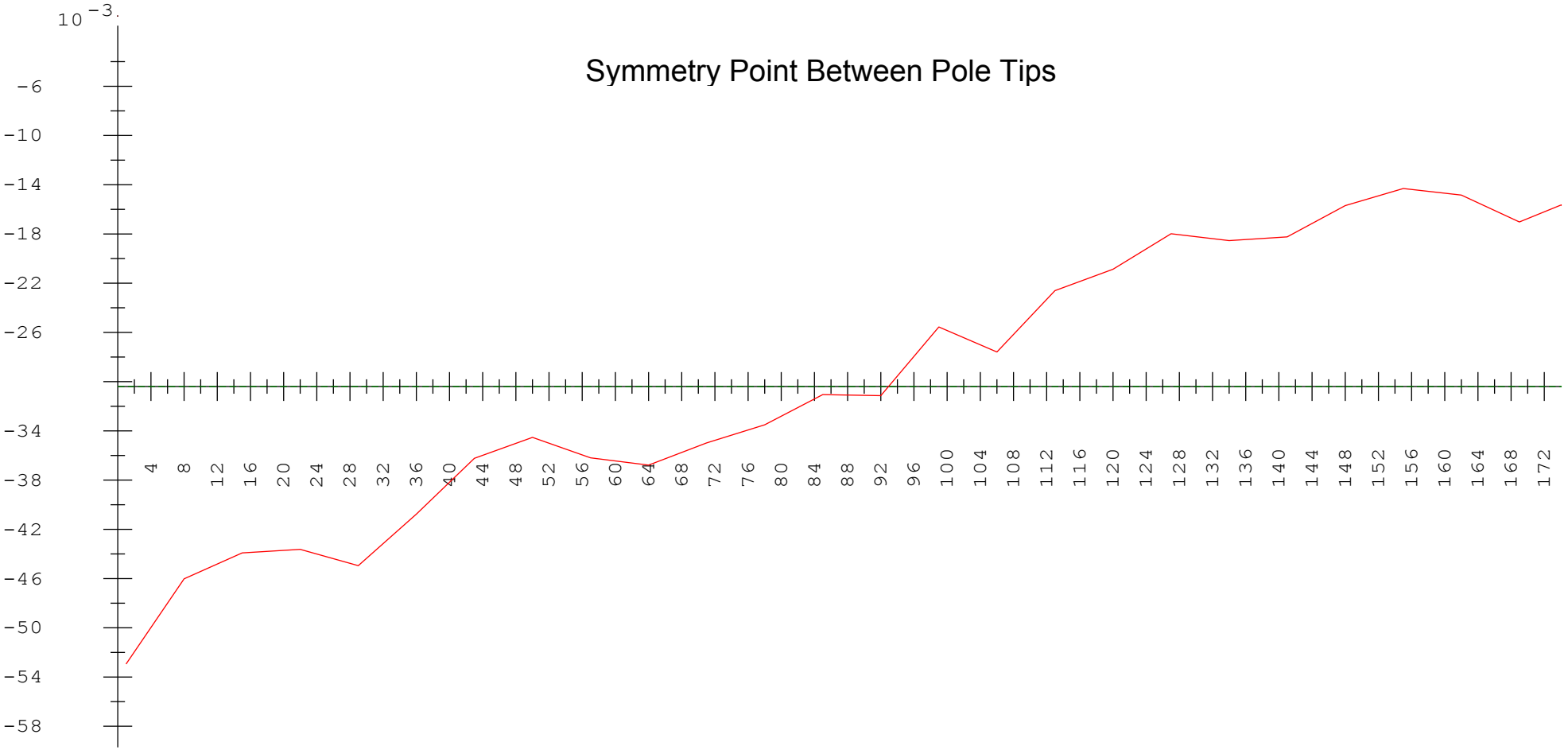
SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 11 Nominal Taper = 0.000

Gap Reading = 11.0000 US Encoder = 11.0001 DS Encoder = 11.0000

04-APR-2019
S/N = 002
D/S= 0001
Run= 4



Mean Symmetry Value = -0.0304

Step Between Measured Pole Tips = 7

Dimensions in mm

SLAC NATIONAL ACCELERATOR LABORATORY
METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 11 Nominal Taper = 0.000

Gap Reading = 11.0000 US Encoder = 11.0001 DS Encoder = 11.0000

04-APR-2019
S/N = 002
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	5.4996	5.5039	5.5147	5.5190
Bottom	-5.5962	-5.5844	-5.5546	-5.5425
Gap	11.0958			11.0616
Taper				-0.0342

Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.5089	-5.5697	11.0786	-0.0304

Additional Calculated Values

Bottom Pole #1 Z Value	980.303
Top Jaw Pitch (mrad)	0.006
Bottom Jaw Pitch(mrad)	0.016
Minimum Effective Gap	11.024
Reference Block Gap	6.810

Dimensions in mm

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METROLOGY

LCLS II - SXR Undulator

Nominal Gap = 11 Nominal Taper = 0.000

Gap Reading = 11.0000 US Encoder = 11.0001 DS Encoder = 11.0000

04-APR-2019
S/N = 002
D/S= 0001
Run= 4