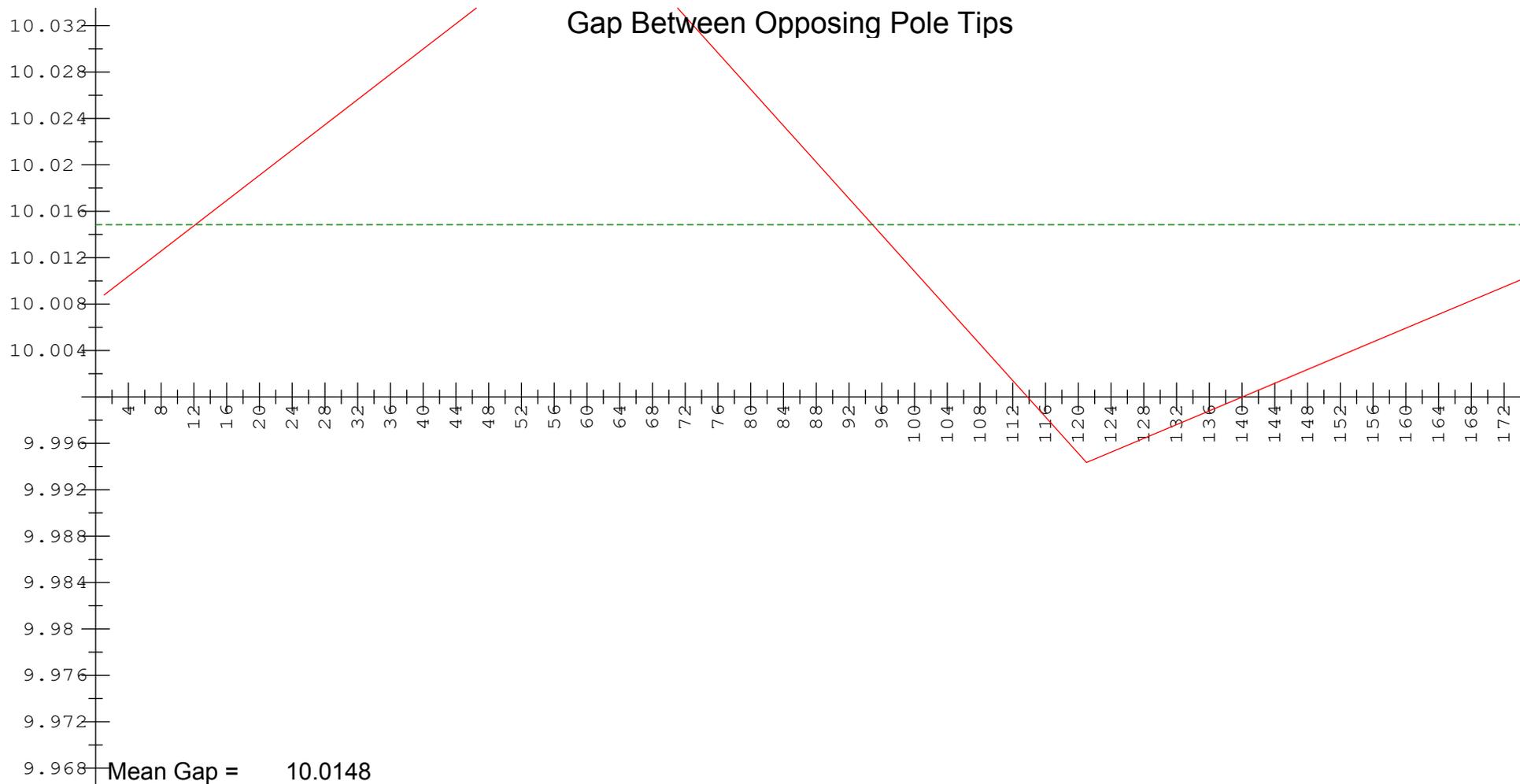


Y Value Scales Centered on Mean Values
 Step Between Measured Pole Tips = 60

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

| | | | |
|---|--------------------------------|-----------------------|-------------|
|  | LCLS II - SXR Undulator | | 30-JUL-2019 |
| | Nominal Gap = 10 | Nominal Taper = 0.000 | S/N = 001 |
| | Gap Reading = 0.0000 | US Encoder = 0.0000 | D/S = 0007 |
| | | DS Encoder = 0.0000 | Run = 14 |



Step Between Measured Pole Tips = 60

Dimensions in mm

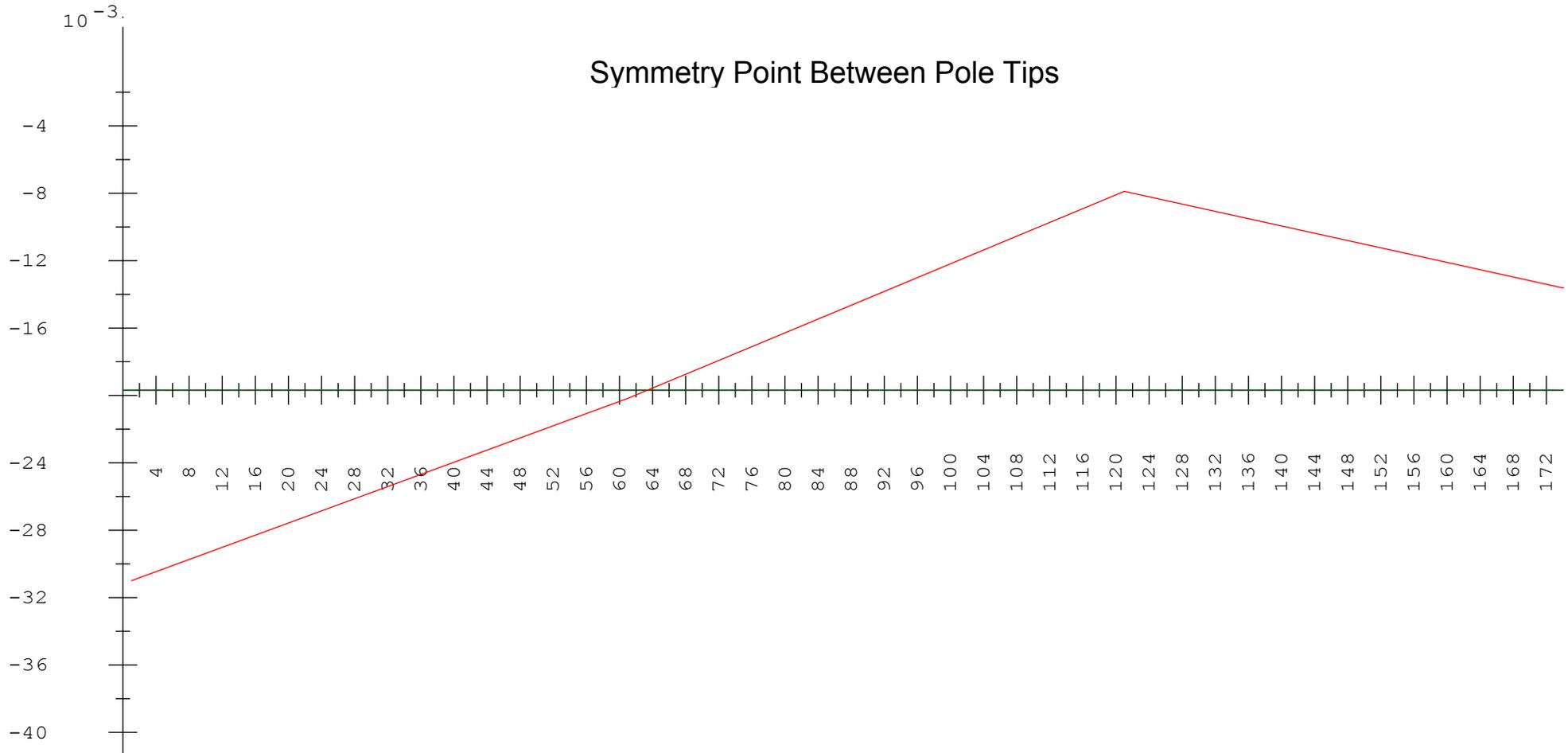


LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 0.0000 US Encoder = 0.0000 DS Encoder = 0.0000

30-JUL-2019
 S/N = 001
 D/S = 0007
 Run = 14

Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0197

Step Between Measured Pole Tips = 60

Dimensions in mm



LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 0.0000 US Encoder = 0.0000 DS Encoder = 0.0000

30-JUL-2019
 S/N = 001
 D/S = 0007
 Run = 14

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 | 4.9820 | 4.9849 | 4.9921 | 4.9951 |
| Bottom | -5.0383 | -5.0326 | -5.0181 | -5.0122 |
| Gap | 10.0203 | | | 10.0072 |
| Taper | | | | -0.0131 |

Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---------------|----------------|------------|-----------------|
| 4.9877 | -5.0271 | 10.0148 | -0.0197 |

Additional Calculated Values

| | |
|-------------------------------|----------------|
| Bottom Pole #1 Z Value | 980.085 |
| Top Jaw Pitch (mrad) | 0.004 |
| Bottom Jaw Pitch(mrad) | 0.008 |
| Minimum Effective Gap | 9.978 |
| Reference Block Gap | 6.804 |

Dimensions in mm



LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.000
 Gap Reading = 0.0000 US Encoder = 0.0000 DS Encoder = 0.0000

30-JUL-2019
 S/N = 001
 D/S = 0007
 Run = 14