

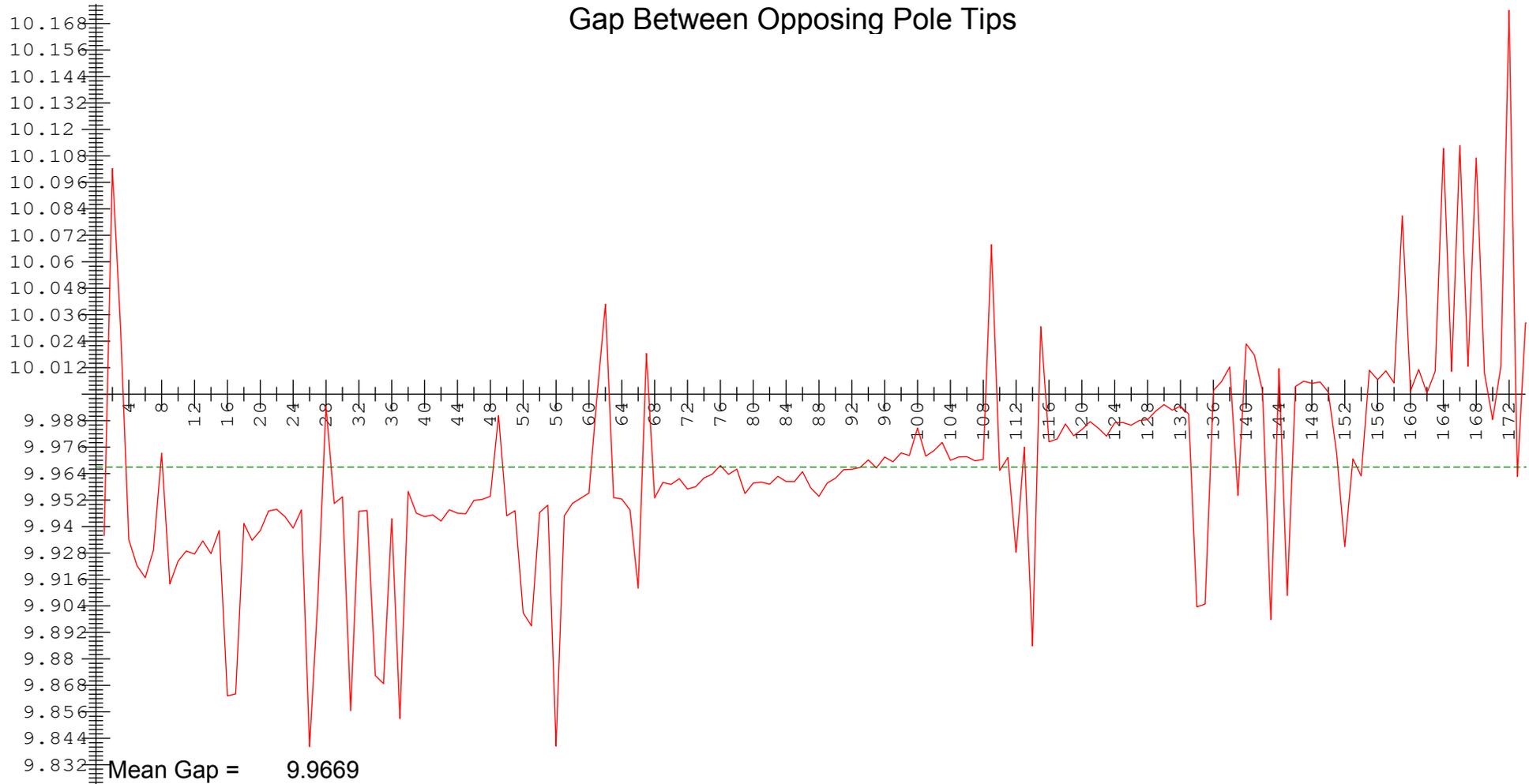
Minimum Effective Gap = 9.838

Y Value Scales Centered on Mean Values
Step Between Measured Pole Tips = 1

Regression Line Through Points =
Dimensions in mm

| | | | |
|---|---|---|--|
|  | <h2>LCLS II - SXR Undulator</h2> | | 13-SEP-2018 S/N = 001 D/S = 0004 Run = 14 |
| | Nominal Gap = 10 Gap Reading = 10.0500 | Nominal Taper = 0.100 US Encoder = 10.0000 DS Encoder = 10.1000 | |

Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 1

Dimensions in mm

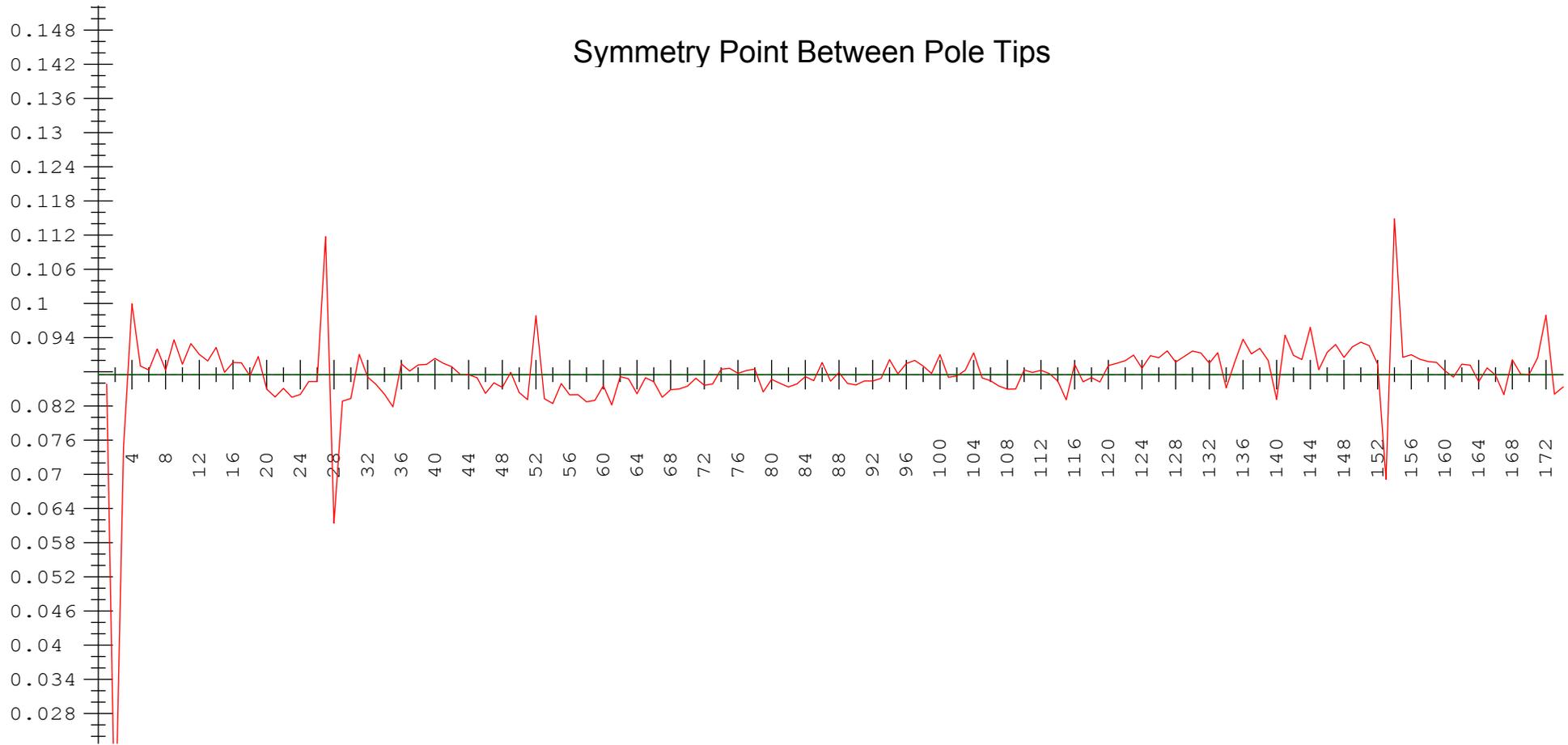


LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.100
 Gap Reading = 10.0500 US Encoder = 10.0000 DS Encoder = 10.1000

13-SEP-2018
 S/N = 001
 D/S = 0004
 Run = 14

Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.0875

Step Between Measured Pole Tips = 1

Dimensions in mm



LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.100
 Gap Reading = 10.0500 US Encoder = 10.0000 DS Encoder = 10.1000

13-SEP-2018
 S/N = 001
 D/S = 0004
 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 | 5.0446 | 5.0562 | 5.0854 | 5.0973 |
| Bottom | -4.8756 | -4.8845 | -4.9072 | -4.9164 |
| Gap | 9.9202 | | | 10.0137 |
| Taper | | | | 0.0935 |

Summary of Mean Values

| Top Jaw Poles | Btm. Jaw Poles | Gap Values | Sym. Pt. Values |
|---------------|----------------|------------|-----------------|
| 5.0710 | -4.8960 | 9.9669 | 0.0875 |

Additional Calculated Values

| | |
|-------------------------------|----------------|
| Bottom Pole #1 Z Value | 979.975 |
| Top Jaw Pitch (mrad) | 0.016 |
| Bottom Jaw Pitch(mrad) | -0.012 |
| Minimum Effective Gap | 9.838 |
| Reference Block Gap | 6.807 |

Dimensions in mm



LCLS II - SXR Undulator

Nominal Gap = 10 Nominal Taper = 0.100
 Gap Reading = 10.0500 US Encoder = 10.0000 DS Encoder = 10.1000

13-SEP-2018
 S/N = 001
 D/S= 0004
 Run= 14