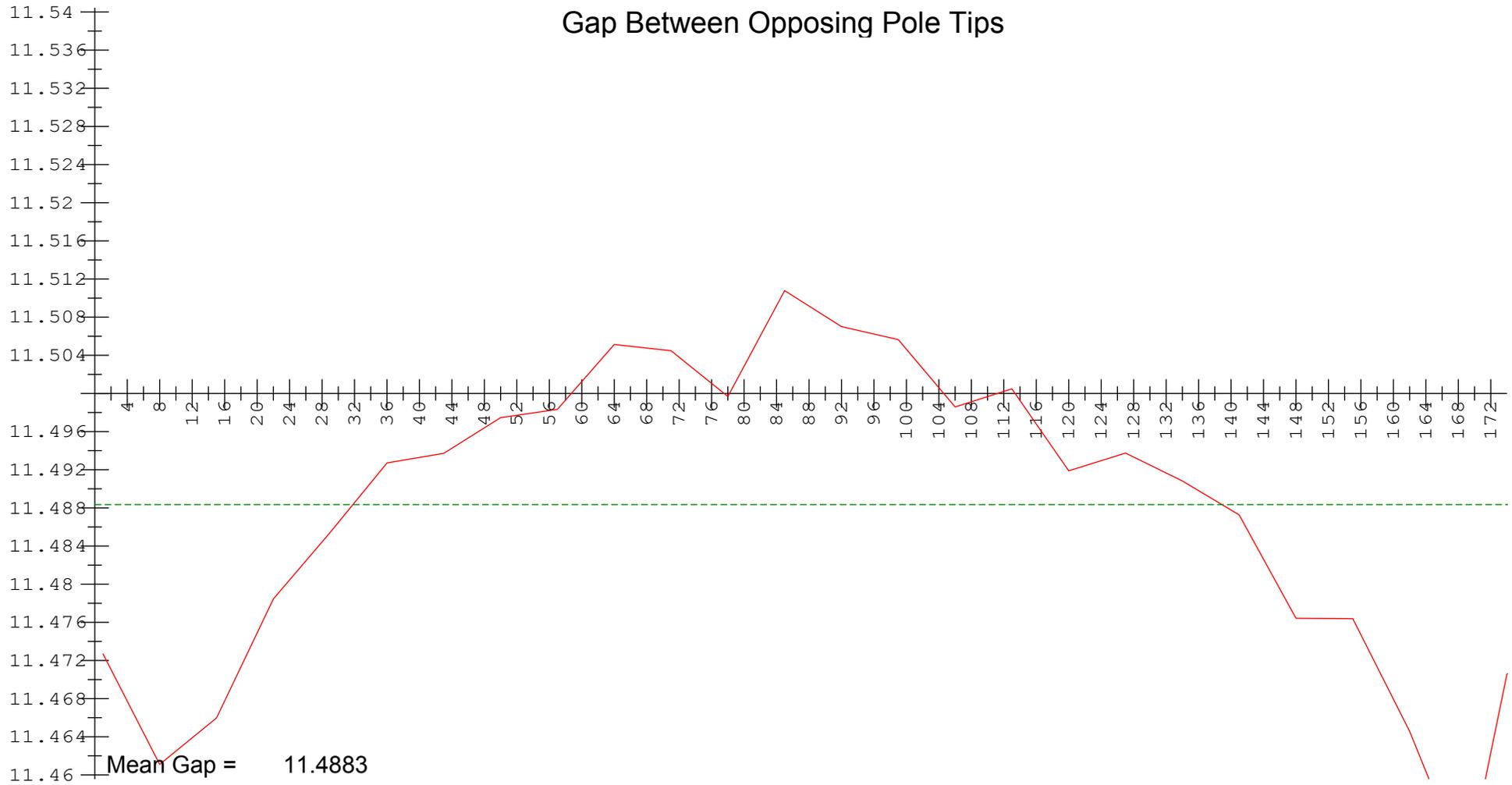


Y Value Scales Centered on Mean Values  
 Step Between Measured Pole Tips = 7

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

 <p><b>SLAC</b> NATIONAL ACCELERATOR LABORATORY METROLOGY</p>	<h2 style="margin: 0;">LCLS II - SXR Undulator</h2> <p style="margin: 0;">Nominal Gap = 11.5      Nominal Taper = 0.000</p> <p style="margin: 0;">Gap Reading = 11.5000      US Encoder = 11.5000      DS Encoder = 11.5001</p>	<p style="margin: 0;">21-AUG-2018</p> <p style="margin: 0;">S/N = 014</p> <p style="margin: 0;">D/S = 0001</p> <p style="margin: 0;">Run = 6</p>
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### Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 7

Dimensions in mm

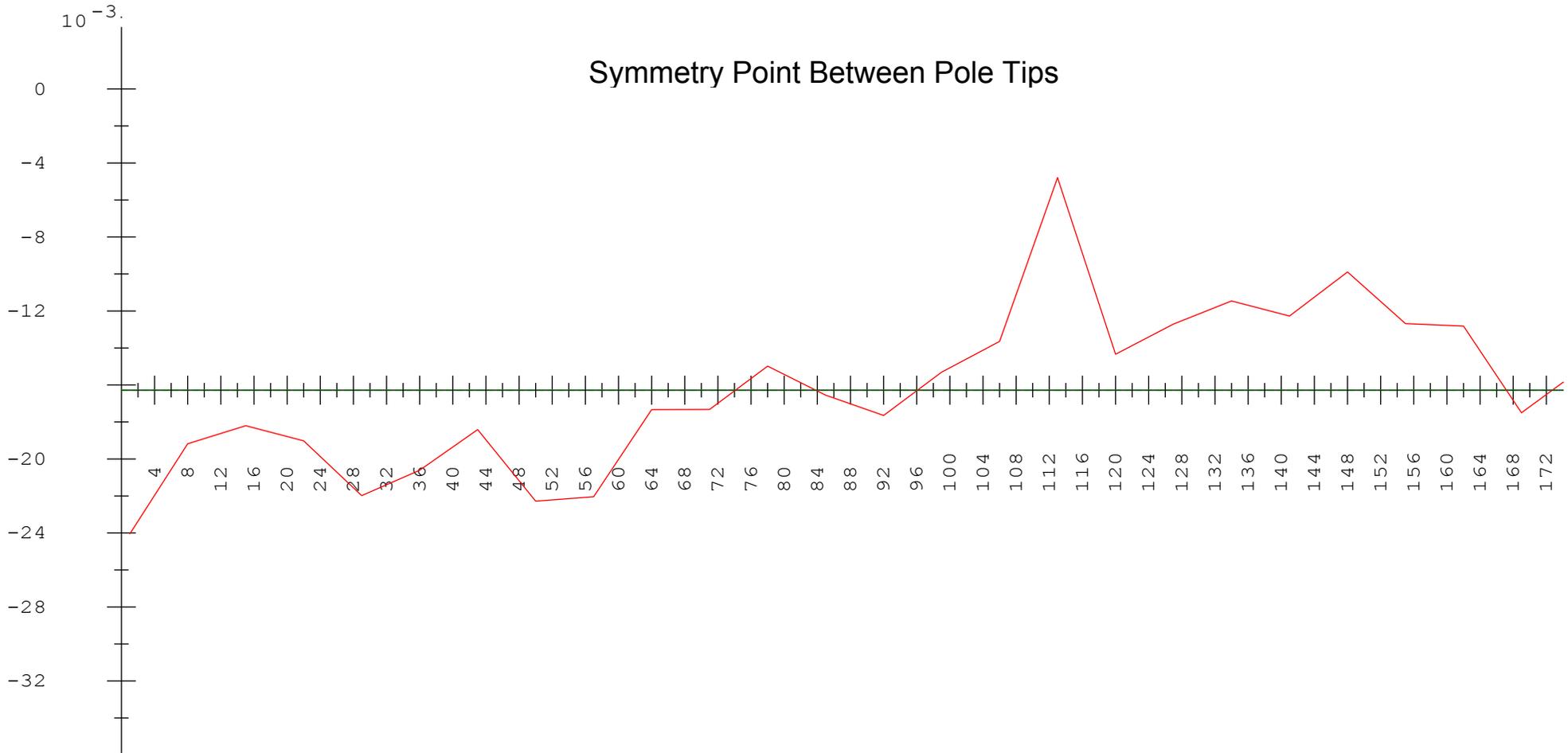


### LCLS II - SXR Undulator

Nominal Gap = 11.5      Nominal Taper = 0.000  
 Gap Reading = 11.5000      US Encoder = 11.5000      DS Encoder = 11.5001

21-AUG-2018  
 S/N = 014  
 D/S = 0001  
 Run = 6

### Symmetry Point Between Pole Tips



Mean Symmetry Value = -0.0163

Step Between Measured Pole Tips = 7

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 11.5      Nominal Taper = 0.000  
 Gap Reading = 11.5000      US Encoder = 11.5000      DS Encoder = 11.5001

21-AUG-2018  
 S/N = 014  
 D/S = 0001  
 Run = 6

## 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)
<b>Top</b>	5.7242	5.7257	5.7294	5.7309
<b>Bottom</b>	-5.7668	-5.7639	-5.7565	-5.7535
<b>Gap</b>	11.4911			11.4844
<b>Taper</b>				-0.0067

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
5.7279	-5.7605	11.4883	-0.0163

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>979.941</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.002</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.004</b>
<b>Minimum Effective Gap</b>	<b>11.450</b>
<b>Reference Block Gap</b>	<b>6.806</b>

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 11.5      Nominal Taper = 0.000  
 Gap Reading = 11.5000    US Encoder = 11.5000    DS Encoder = 11.5001

21-AUG-2018  
 S/N = 014  
 D/S= 0001  
 Run= 6