

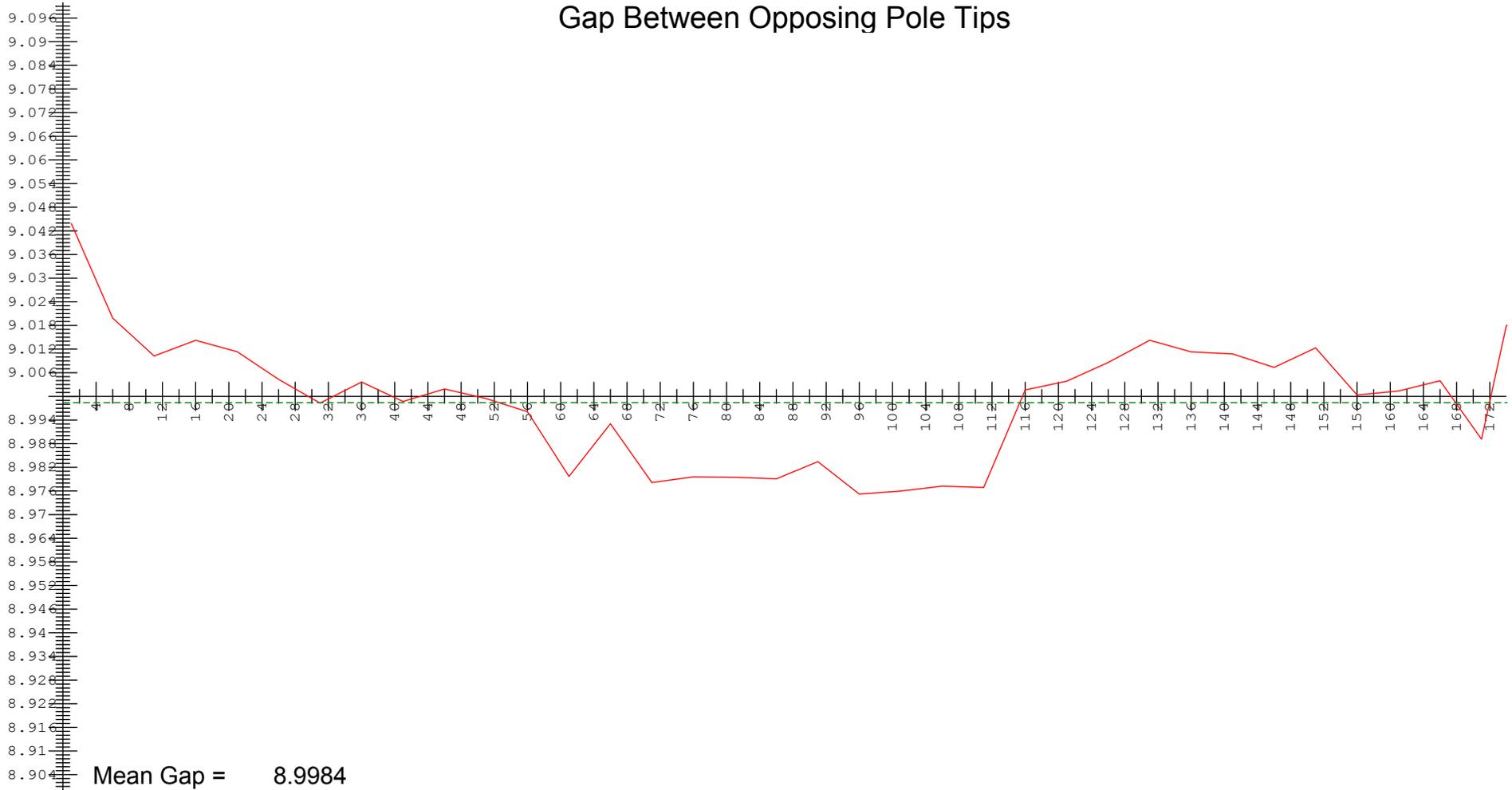
Minimum Effective Gap = 8.969

Y Value Scales Centered on Mean Values  
 Step Between Measured Pole Tips = 5

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

 NATIONAL ACCELERATOR LABORATORY <b>METROLOGY</b>	<h2 style="margin: 0;">LCLS II - SXR Undulator</h2> <h3 style="margin: 0;">Nominal Gap = 9</h3> <p style="margin: 0;">Gap Reading = 9.0000      US Encoder = 9.0000      DS Encoder = 9.0000</p>	<p style="margin: 0;">05-FEB-2018</p> <p style="margin: 0;">S/N = 005</p> <p style="margin: 0;">D/S = 0001</p> <p style="margin: 0;">Run = 06</p>
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# Gap Between Opposing Pole Tips



Step Between Measured Pole Tips = 5

Dimensions in mm



## LCLS II - SXR Undulator

Nominal Gap = 9

Gap Reading = 9.0000

US Encoder = 9.0000

DS Encoder = 9.0000

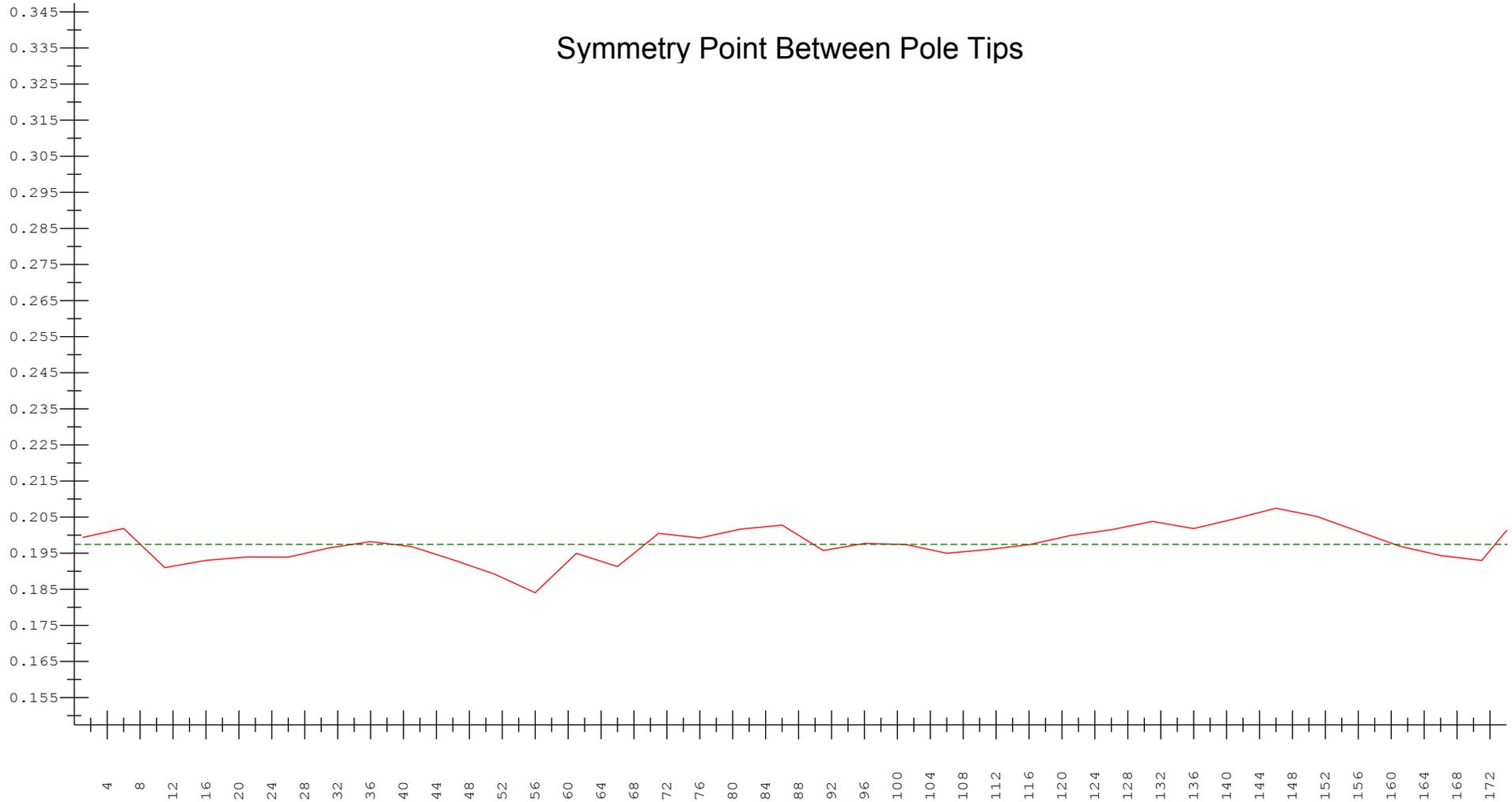
05-FEB-2018

S/N = 005

D/S = 0001

Run = 06

### Symmetry Point Between Pole Tips



Mean Symmetry Value = 0.1974

Step Between Measured Pole Tips = 5

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 9

Gap Reading = 9.0000

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DS Encoder = 9.0000

05-FEB-2018

S/N = 005

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## 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>	4.6947	4.6956	4.6980	4.6990
<b>Bottom</b>	-4.3064	-4.3044	-4.2993	-4.2972

## Summary of Mean Values

Top Jaw Poles	Btm. Jaw Poles	Gap Values	Sym. Pt. Values
4.6965	-4.3016	8.9984	0.1974

## Additional Calculated Values

<b>Bottom Pole #1 Z Value</b>	<b>979.331</b>
<b>Top Jaw Pitch (mrad)</b>	<b>0.001</b>
<b>Bottom Jaw Pitch(mrad)</b>	<b>0.003</b>
<b>Minimum Effective Gap</b>	<b>8.969</b>
<b>Reference Block Gap</b>	<b>6.808</b>

Dimensions in mm



### LCLS II - SXR Undulator

Nominal Gap = 9

Gap Reading = 9.0000

US Encoder = 9.0000

DS Encoder = 9.0000

05-FEB-2018

S/N = 005

D/S= 0001

Run= 06