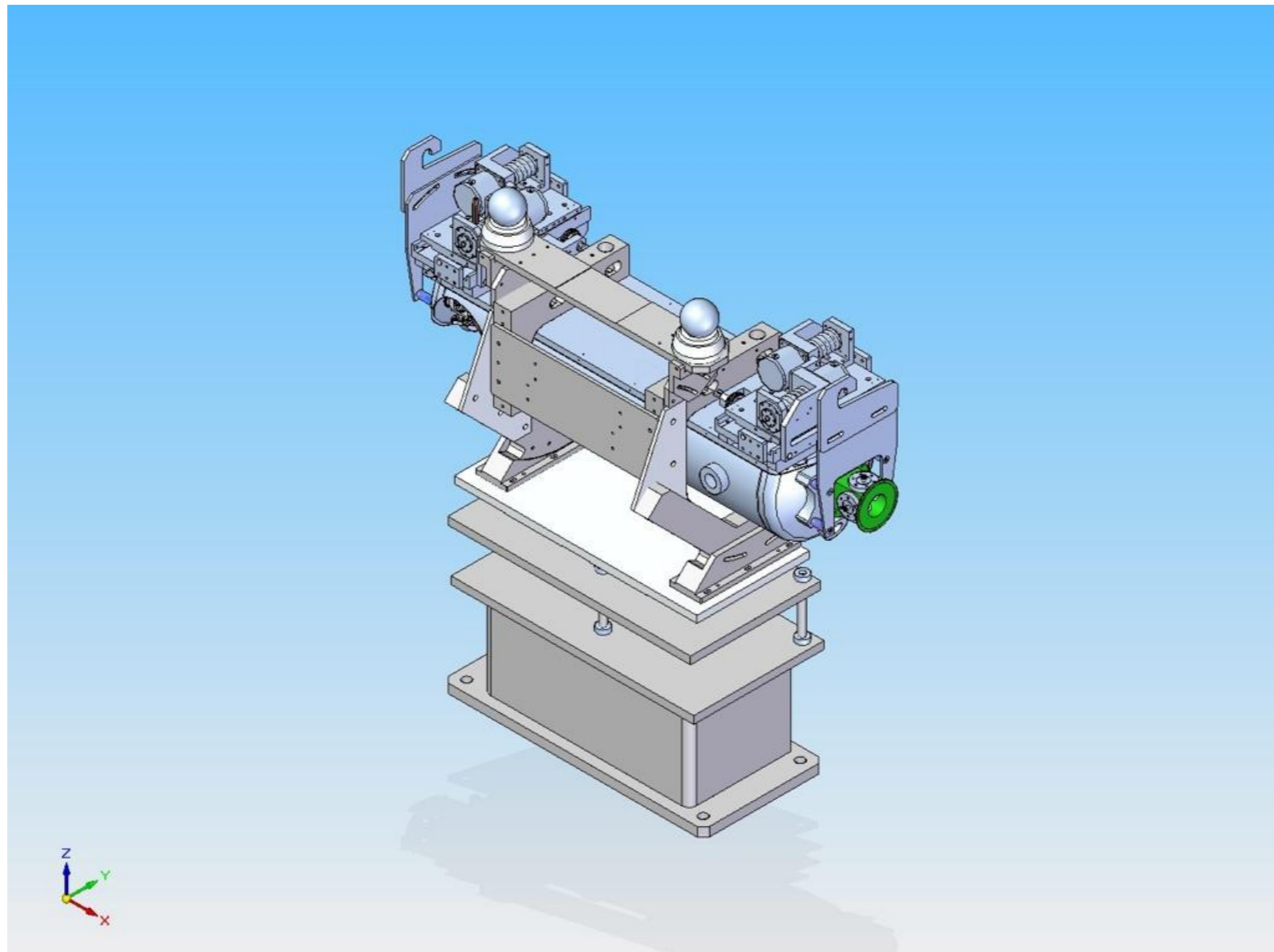


**LARP**

# LARP Phase II Secondary Rotatable Collimator

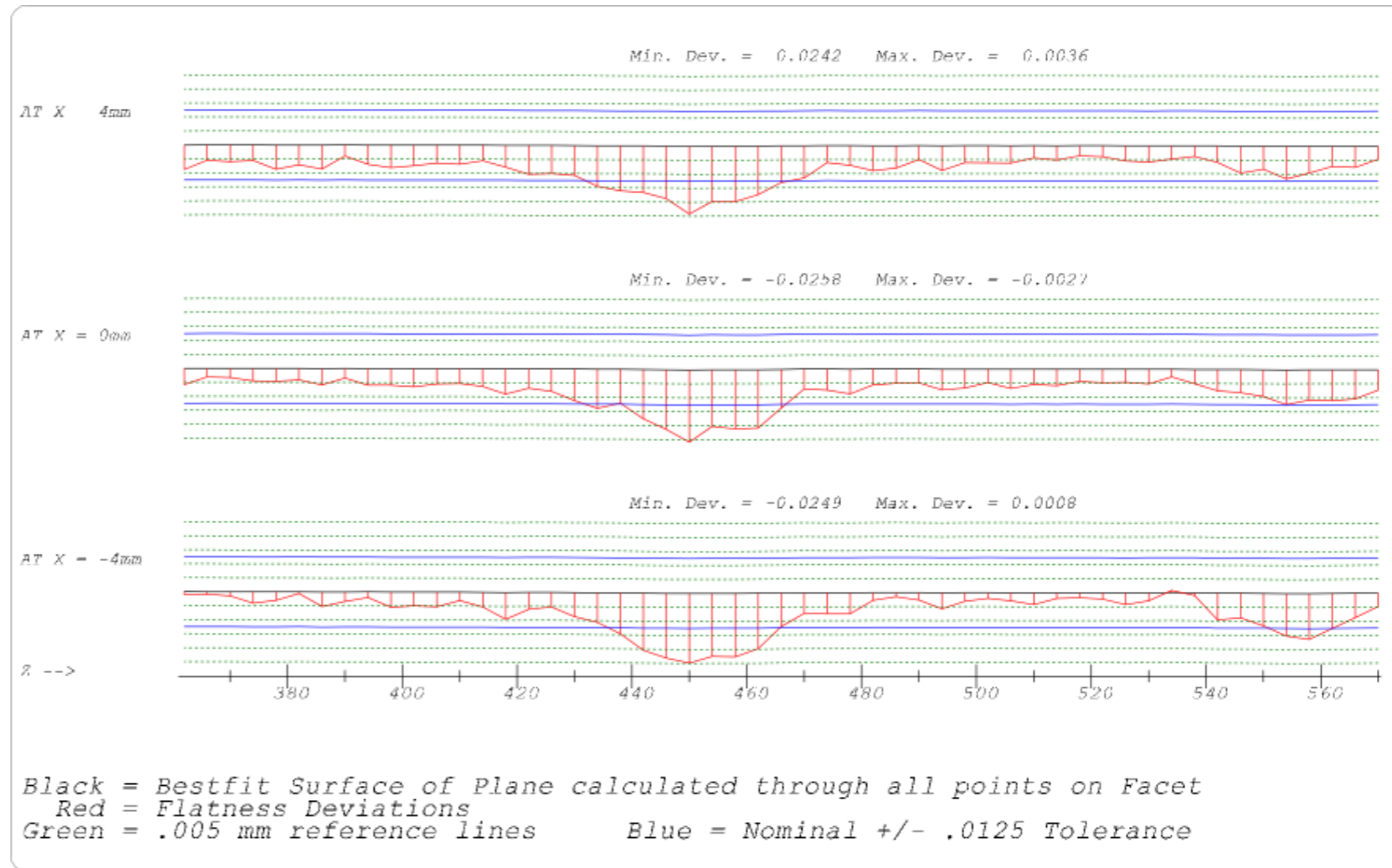
5 min. Status Report

15<sup>th</sup> March, 2010



# CMM results: First Jaw (RC-0)

- Lots of data produced by CMM group.
- Summary:
  - Looking at central 8 mm of each facet (all the beam will see)
  - Worst facet flatness: 50.6 microns
  - Average: 38.5 microns
  - Std dev: 10.3 microns
  - Generally exhibits a bowed shape where outer edges flair out



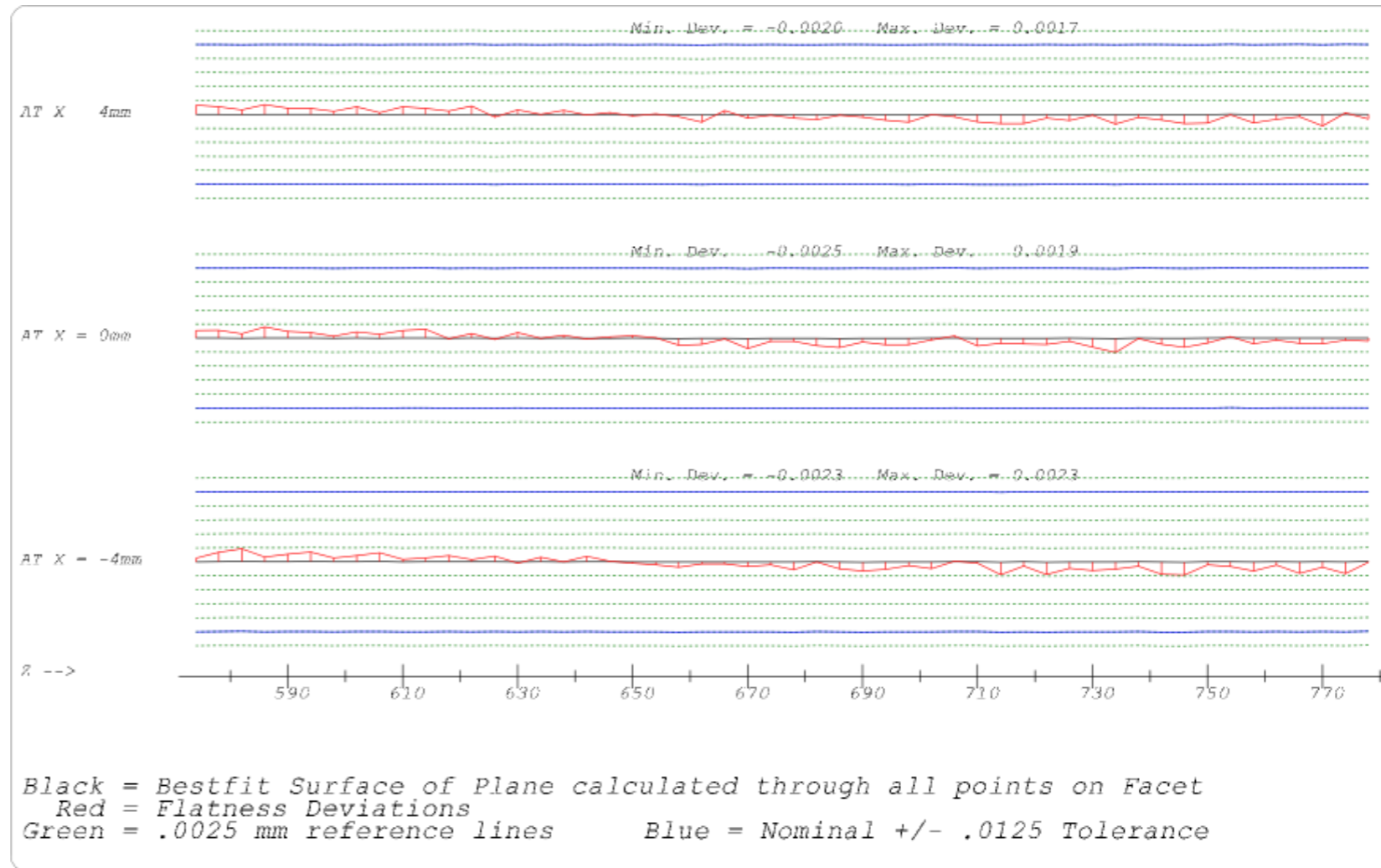
**SLAC**  
NATIONAL ACCELERATOR LABORATORY  
MMF GRE 45129

LARP Phase II Collimator, Facet Flatness  
RC0 Jaw Facet 20, Section 03

02-MAR-2010

# CMM results: Second Jaw (RC-1)

- Second Jaw (RC-2) was machined to much greater precision
- Summary:
  - Worst Facet: 10.8 microns!
  - Average: 8.25
  - Std Dev: 1.45
- This is excellent!



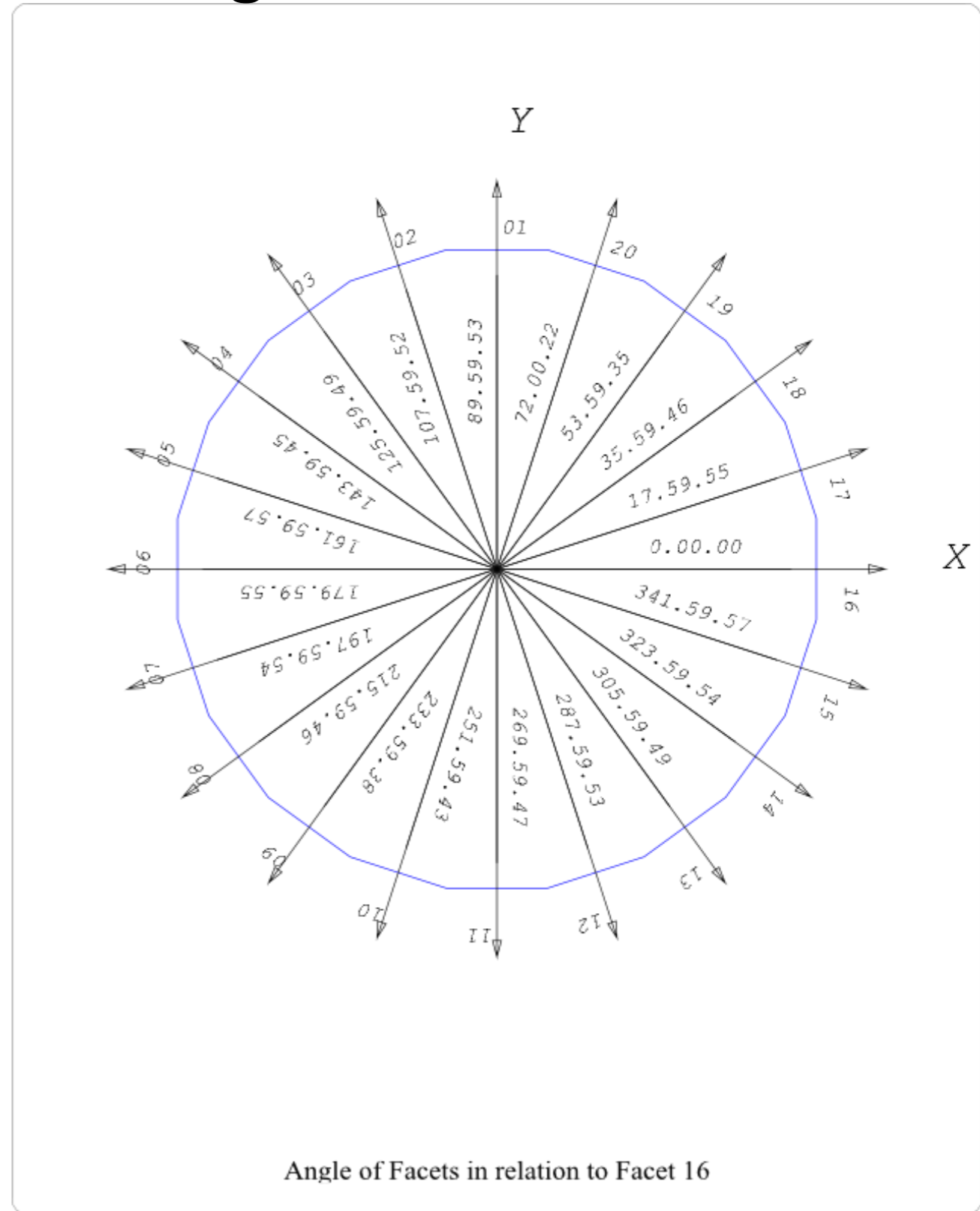
LARP Phase II Collimator, Facet Flatness  
RC1Jaw, Facet 08, Section 04


08-MAR-2010



# Facet offset and angles

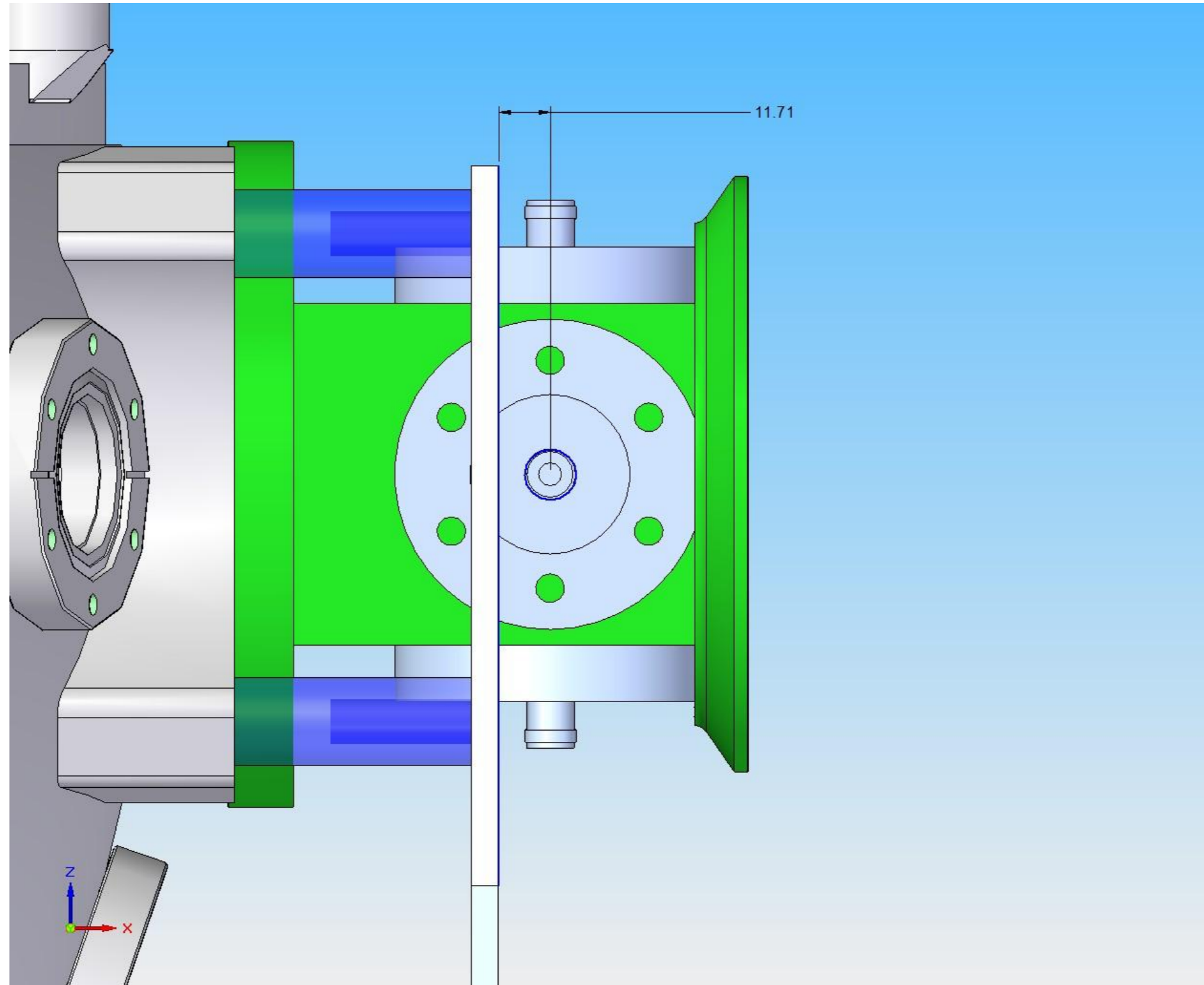
- Also measured width between each pair of facets and concentricity about rotation axis for RC-0 and RC-1.
- This will give the new jaw edge with respect to beam axis after jaw rotation
- Concentricity comparable to flatness values in previous slides
  - RC-1 much better than RC-0
  - This says that there is little run-out and flatness dictates alignment of facets.
- Angles of each facet also measured and within arcseconds of a perfect icosagon (20 sided polygon)



 MMF GRE 45129	LARP Phase II Collimator RC1 JAW Facet Angles	10-MAR-2010
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# For BPM people: BPM Clearance for connectors

Oliver requested we provide some figures showing the access space around the BPMs for connectors. Here are some pictures:



# End view wiring clearances

