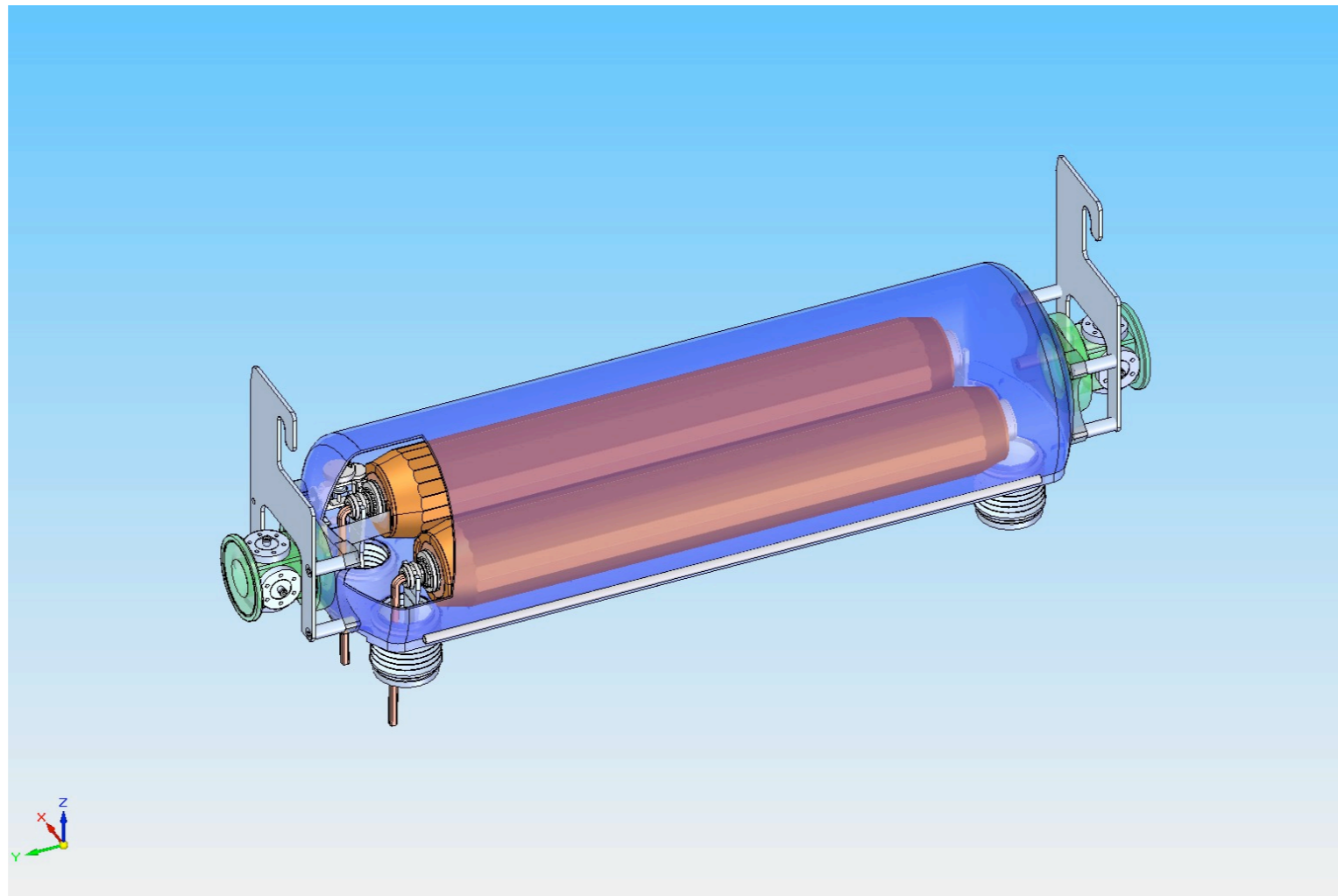
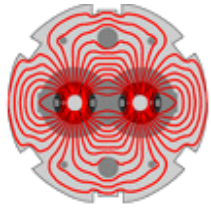


LARP

LARP Phase II Secondary Rotatable Collimator

5 min. Status Report
October 12th, 2009



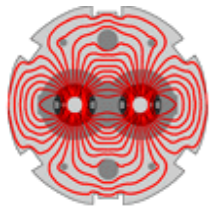


LARP

Resent Progress



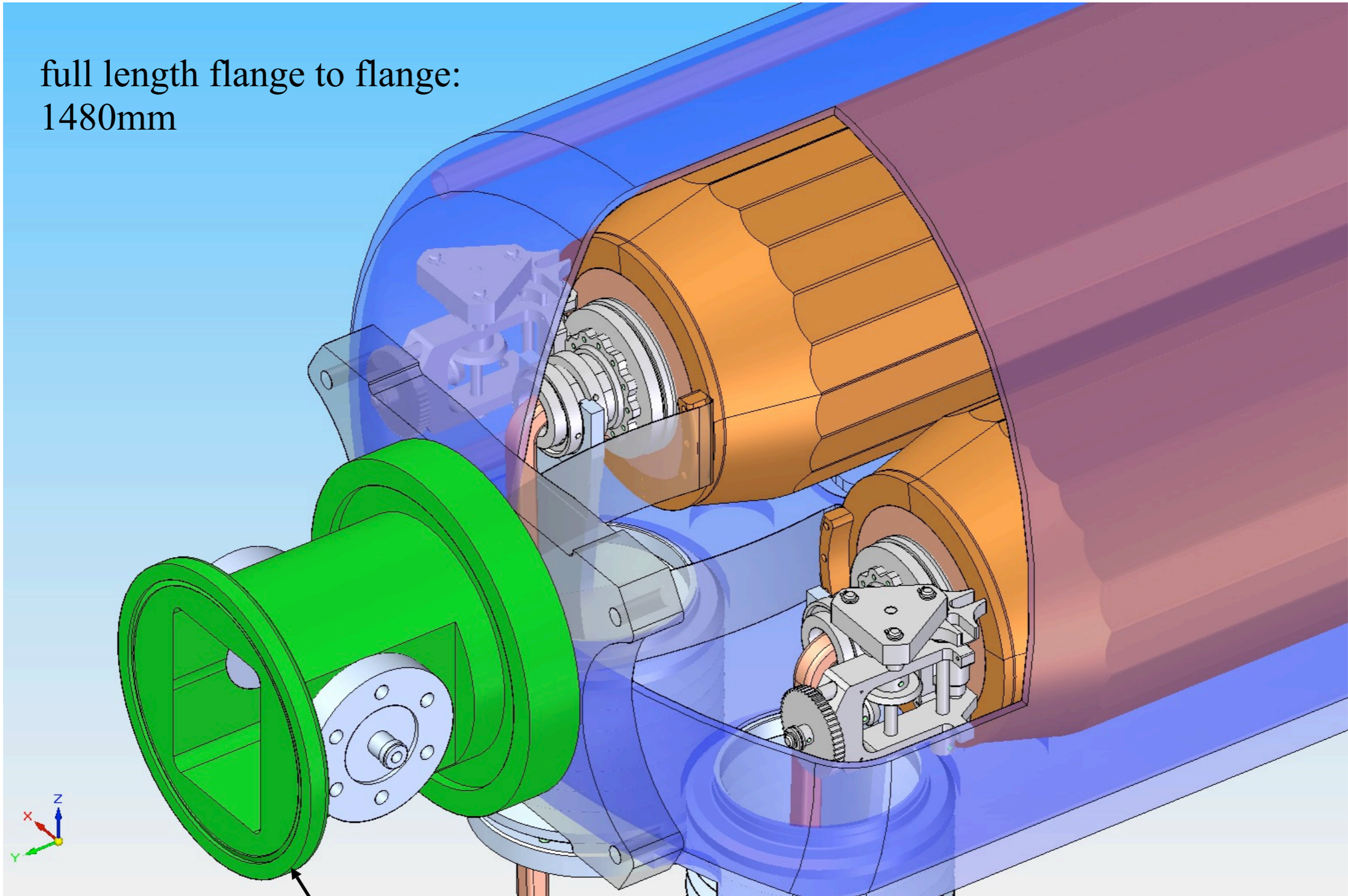
- Vacuum chamber and base plate drawings finished and parts out for fabrication and/or ordered
- First Jaw (RC-0) undergoing final machining to be ready for insertion in full device
- Second Jaw (RC-1) mandrel finished, Jaw cylinders being plated and prepared for brazing
- Documentation:
 - Traveller Documents to be delivered with collimator are being assembled, will describe in details all aspects of device
 - Acceptance Sheet draft created
 - QC and tests to be performed by SLAC and CERN
 - Interface Document draft created
 - Specifies what will be provided by SLAC and CERN for installation in SPS



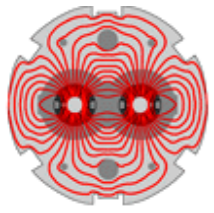
LARP

Proposed Interface Flange Detail

full length flange to flange:
1480mm

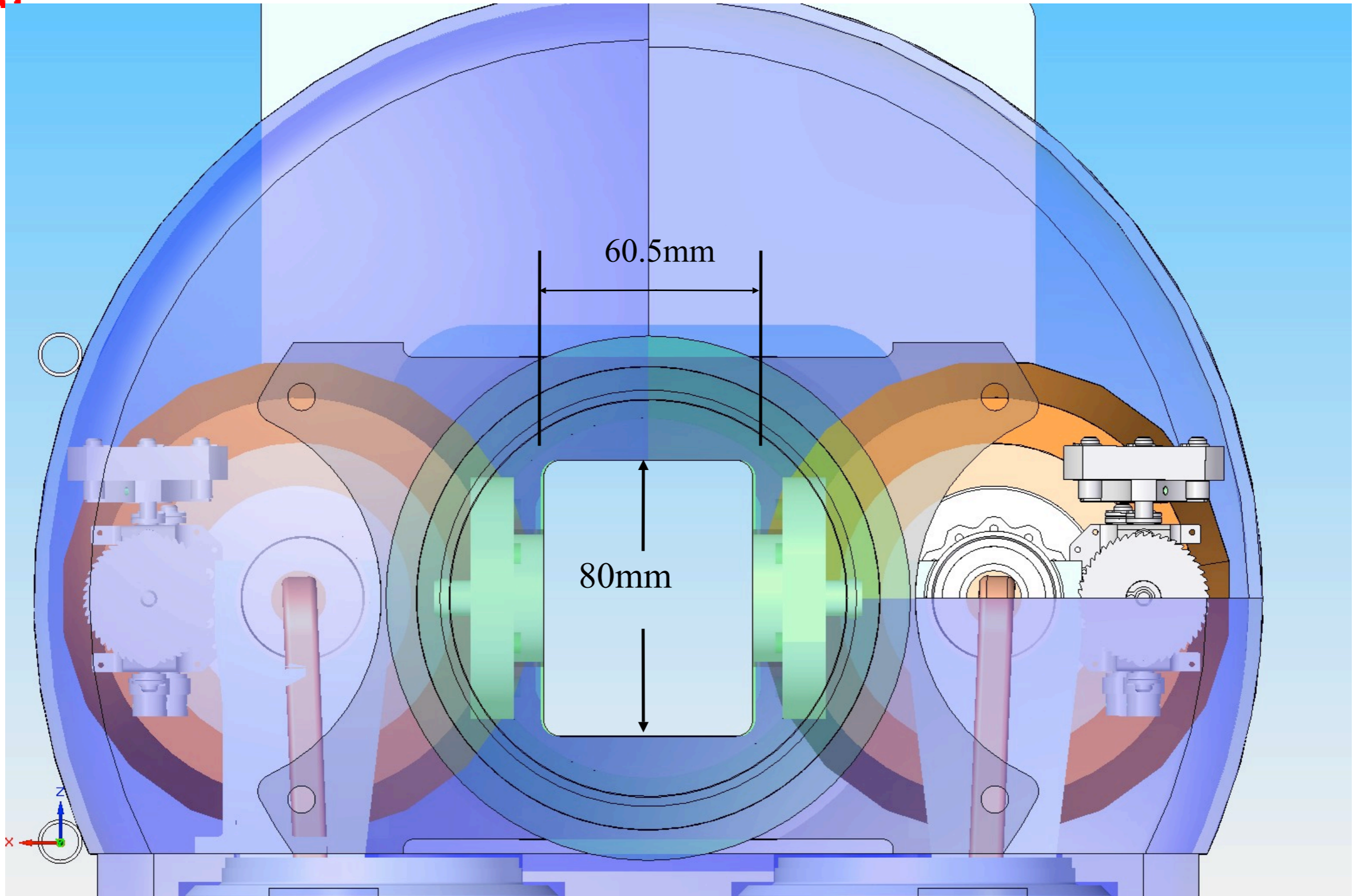


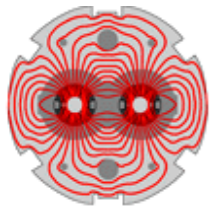
2X CERN Design DN 100 Chain Clamp CF Flange 316LN



LARP

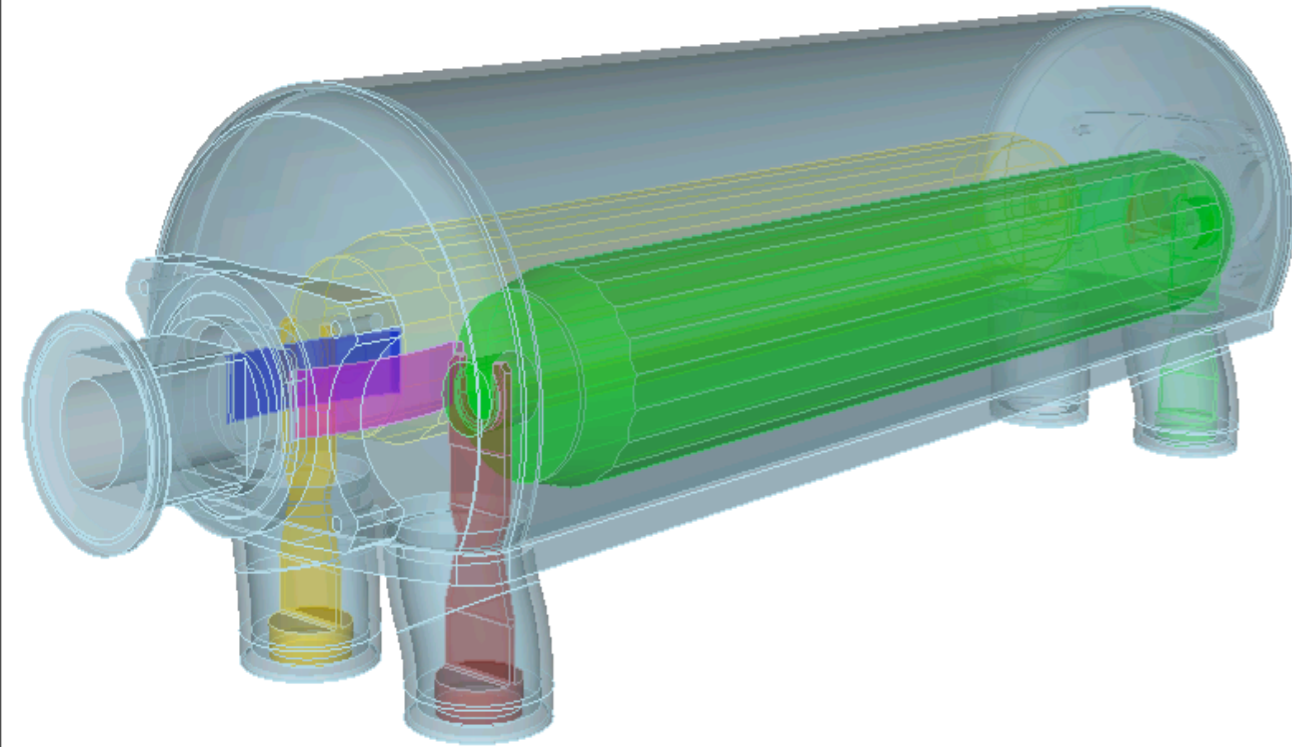
Proposed Collimator/BPM Aperture Dimensions



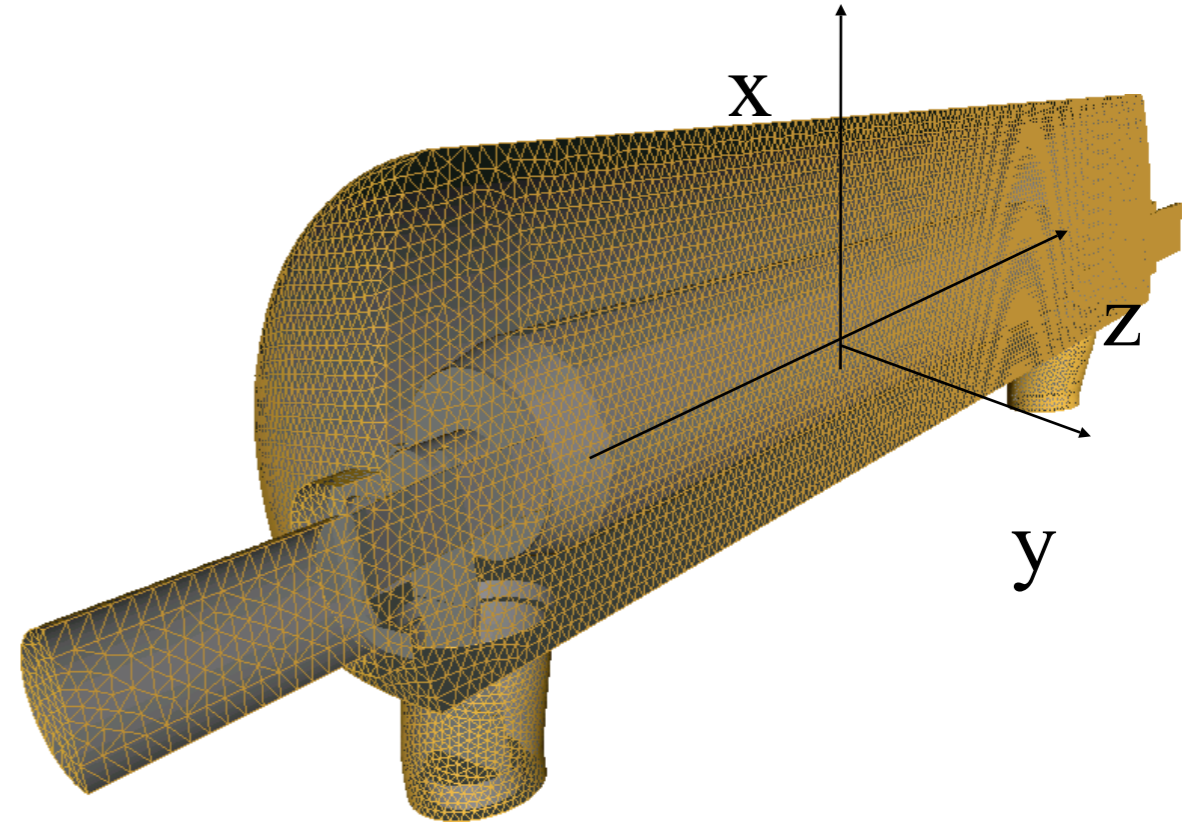


LARP

Trapped Modes in Omega3P



Courtesy Steven Lundgren



Meshed 1/2 Simulation Model

- Studies have begun with new updated and more accurate mesh model of collimator
- Can only use 1 plane of symmetry so simulations will take some time...
- Calculate the longitudinal modes' heating effect at the worst case for jaw gap=60mm
- Calculate the transverse modes' kick at the worst case for jaws with gap=2mm.