aLIGO TCS
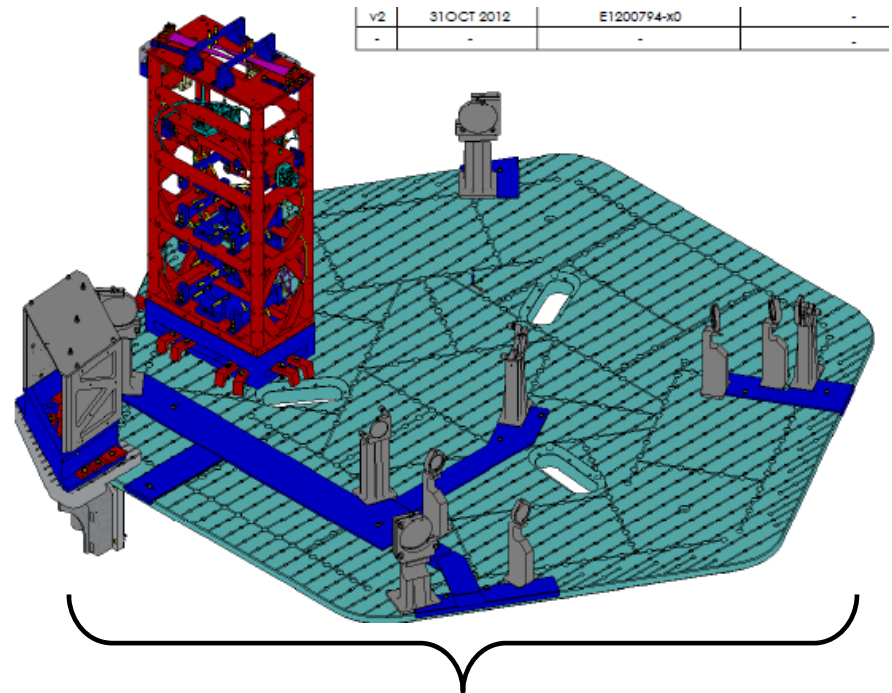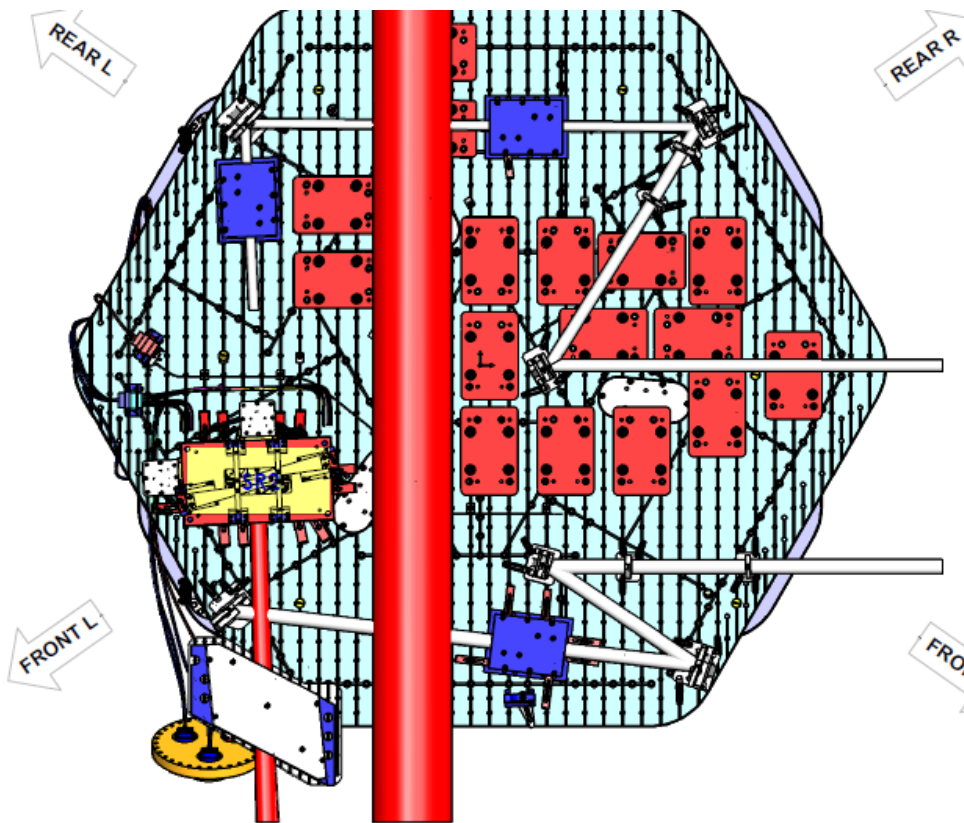# HWS INS Interfaces

Key Issues During Initial Alignments

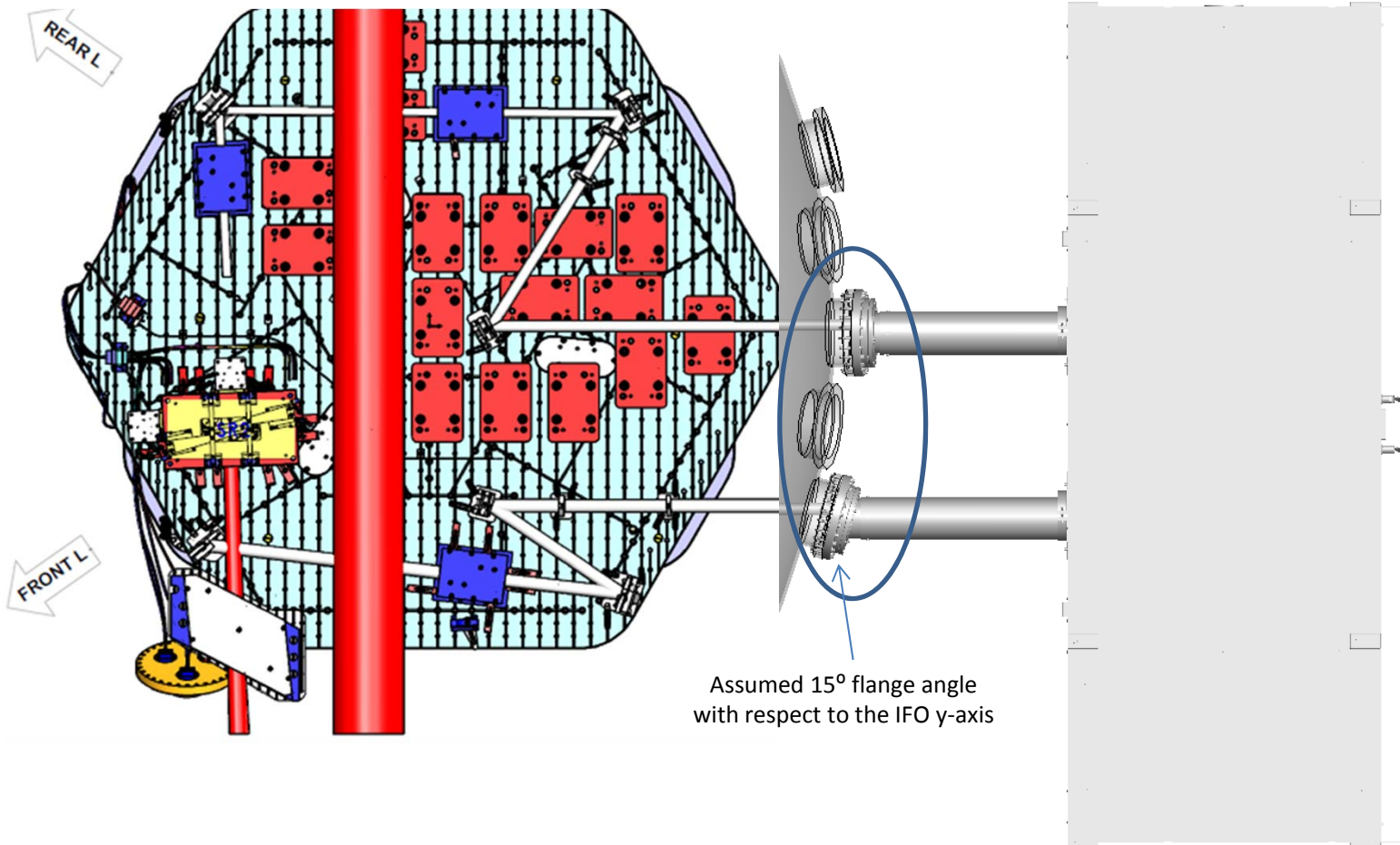# LHAM4

- Placing opto-mech items belonging to the assembly D1101846
  - There are two sub-assemblies for HWSX (D1101847) and HWSY (D1101848)
  - Use the template fixtures (D1201070) layout (D1201098) for guidance
  - Refer also to the installation procedure: E1200615 (maintained by Calum, et. Al.)

v2	31OCT 2012	E1200794-x0	-

Alignment targets from the Brunson catalog cannot fit into these mounts

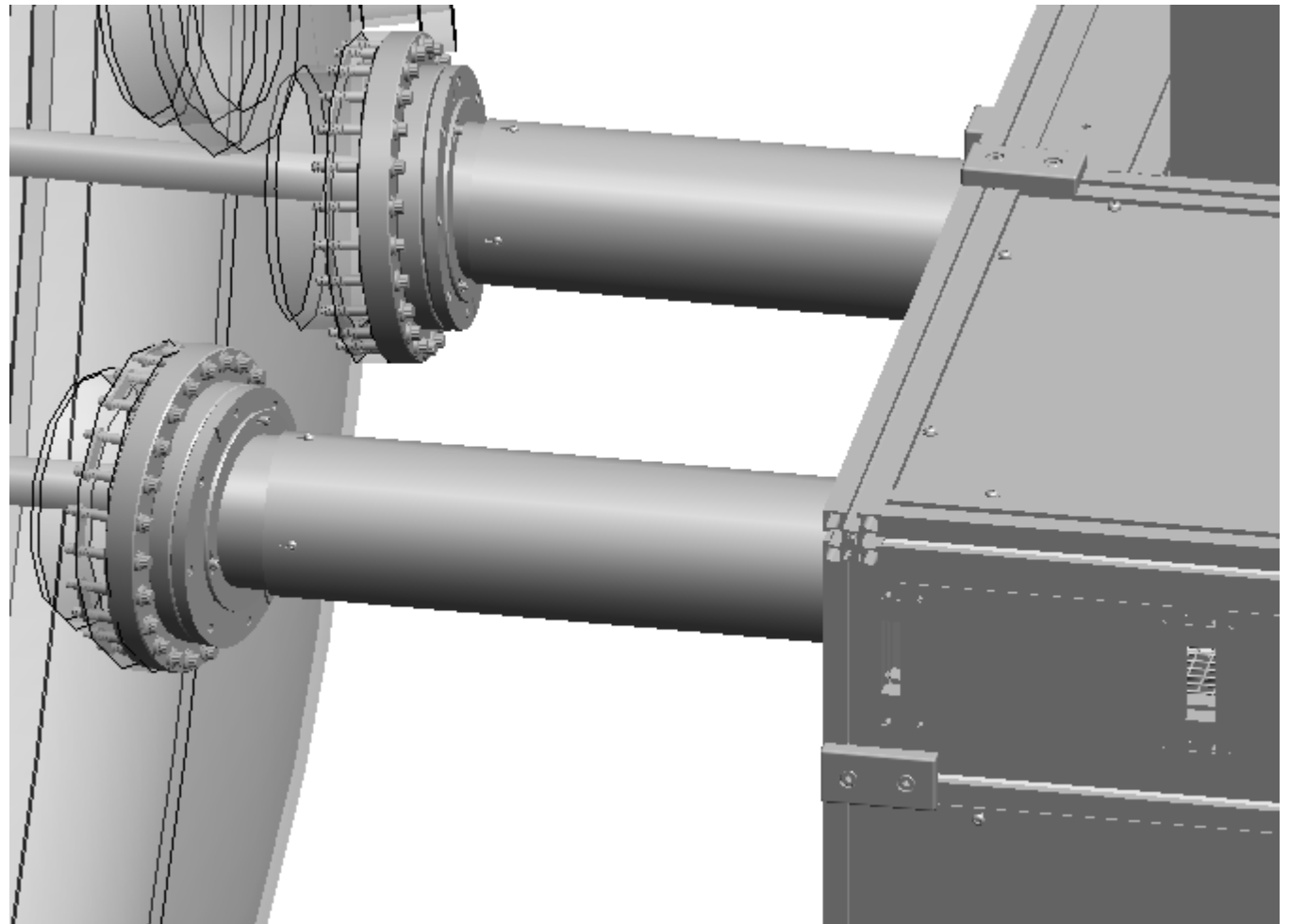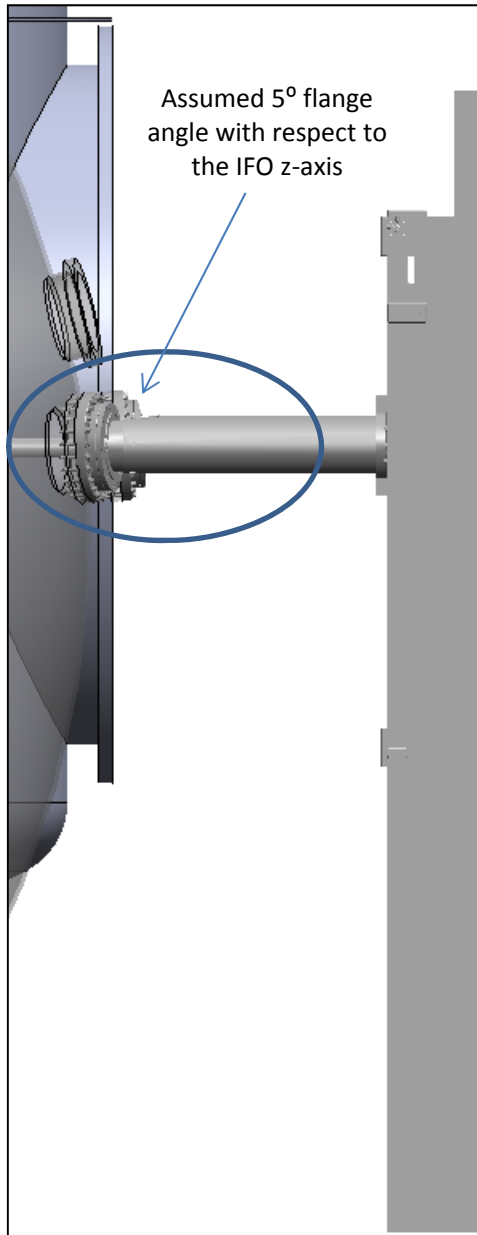*Can actual optics be used?*

LHAM4

- "Centering" beam paths through the viewports
  - Clocking of adapter flange hole patterns really matters!
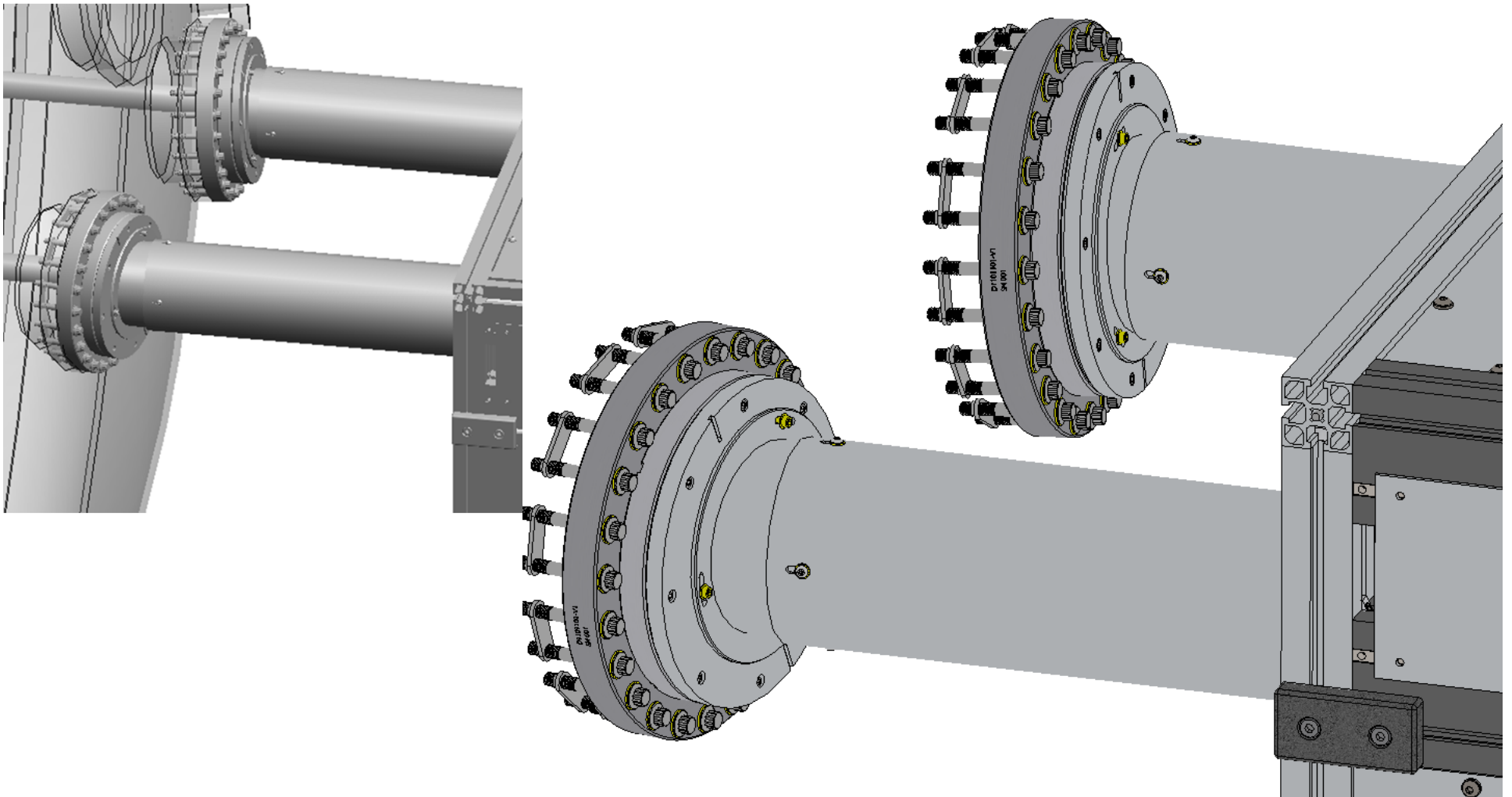 - See next slide for interface clocking specification

Assumed 15⁰ flange angle with respect to the IFO y-axis

LHAM4

"Centering" beam paths through the viewports

- Clocking of adapter flange hole patterns really matters!

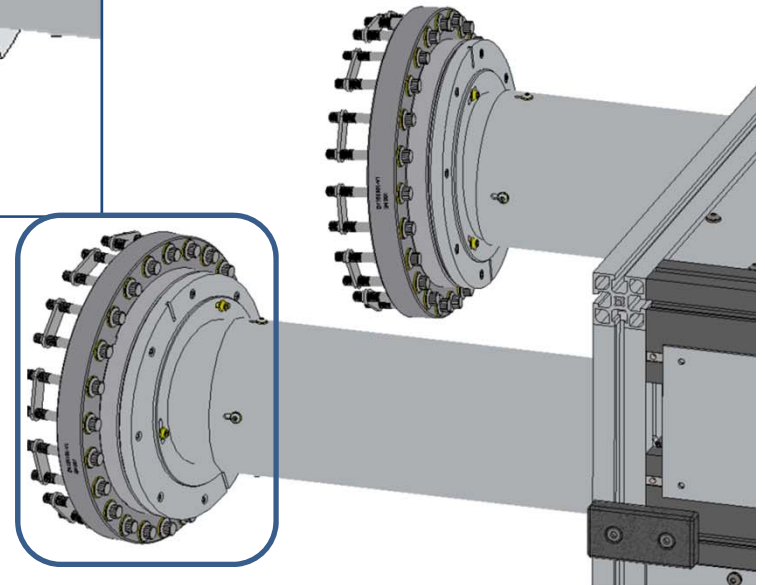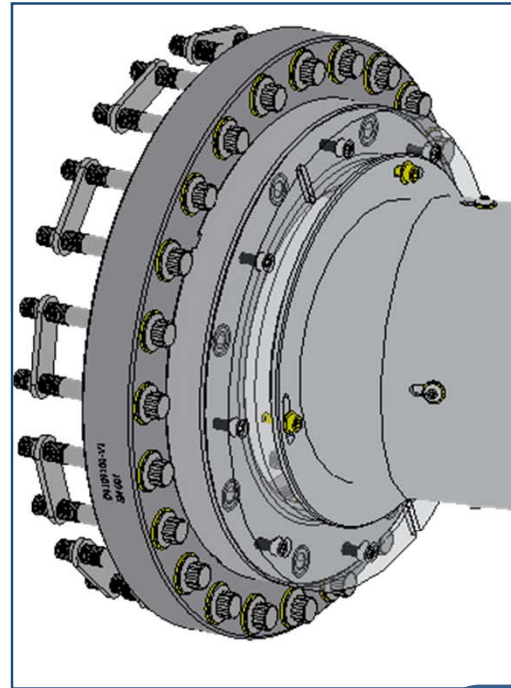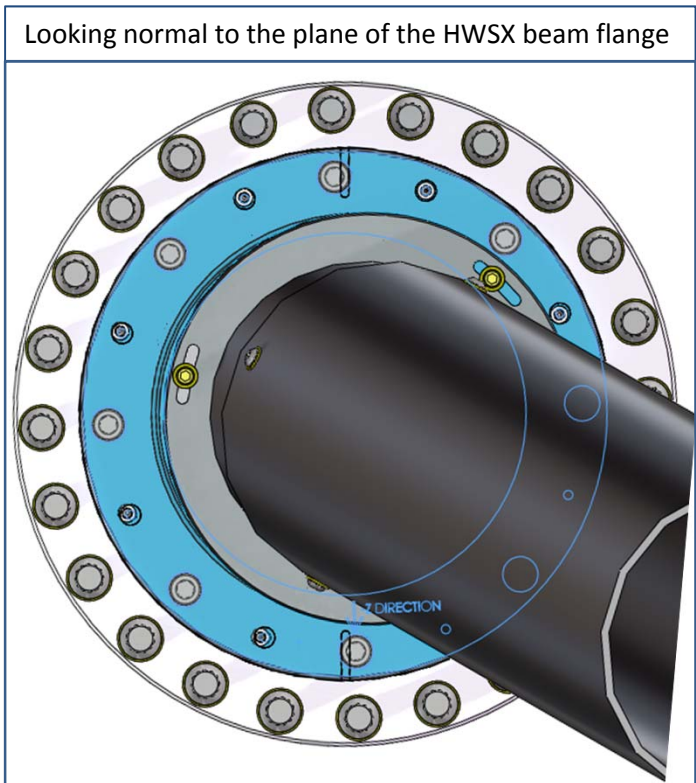Assumed 5° flange angle with respect to the IFO z-axis

LHAM4

- "Centering" beam paths through the viewports
  - Clocking of adapter flange hole patterns really matters!

LHAM4

- "Centering" beam paths through the viewports
  - Clocking of adapter flange hole patterns really matters!

Looking normal to the plane of the HWSX beam flange

LHAM4

- "Centering" beam paths through the viewports
  - Clocking of adapter flange hole patterns really matters!

Looking normal to the plane of the HWSY beam flange