

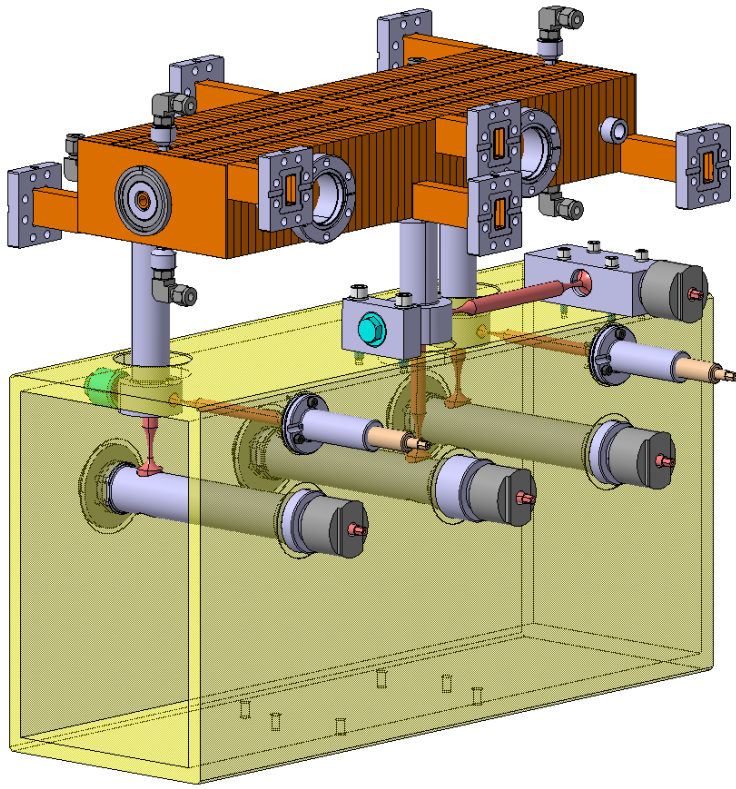
Rectangular Disc – Module Impact

Matthew Capstick

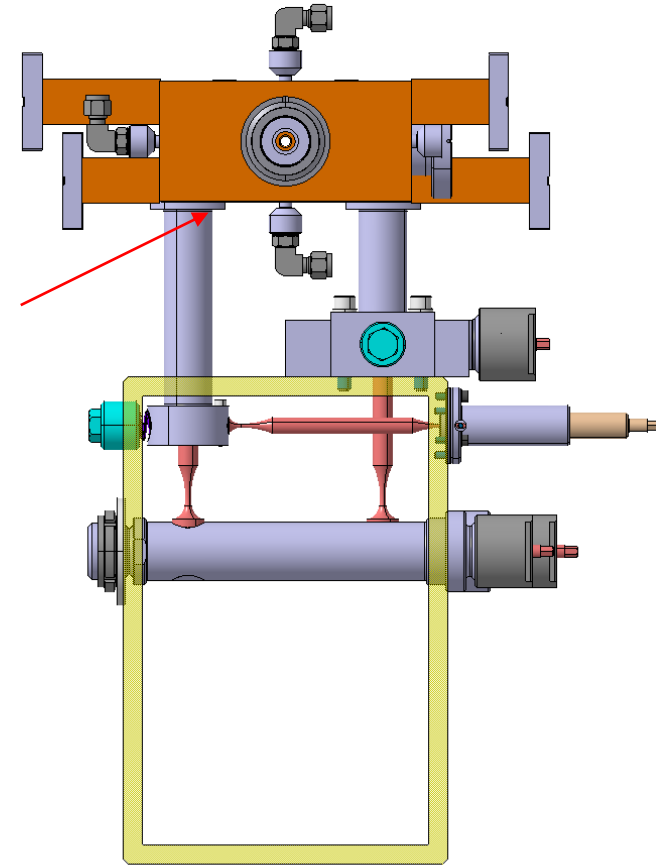
04-11-2020

Rectangular Disc Super Structure

Adjustment platform prototype:

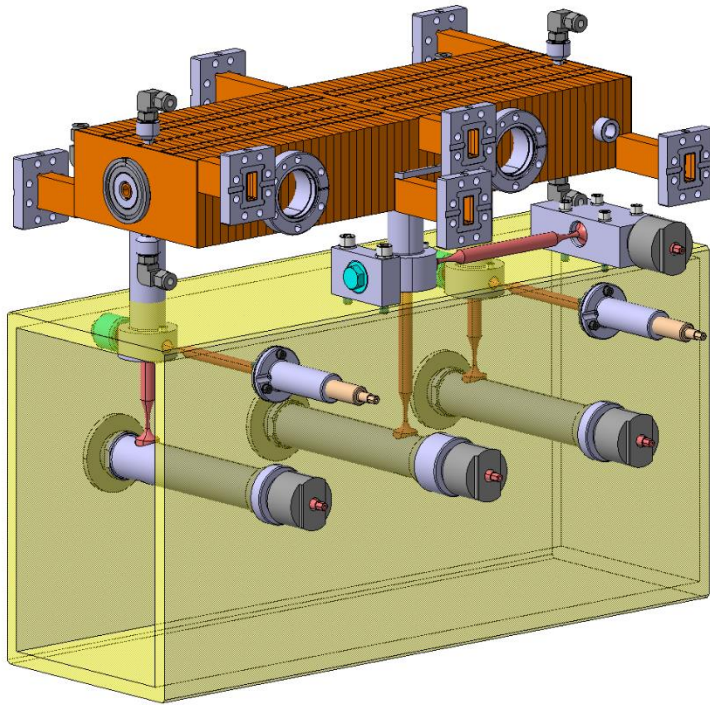


Width of
rectangular SAS ~
width of thermal
test structure

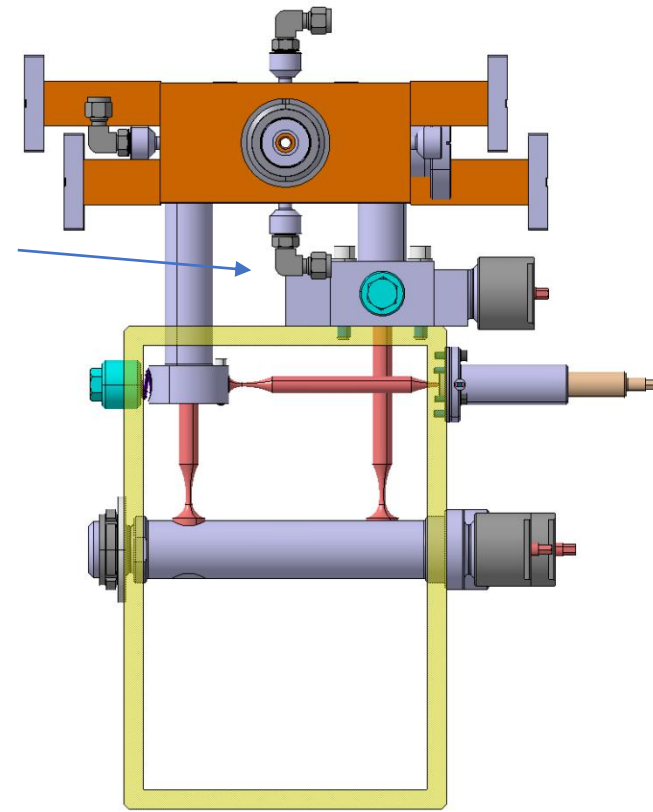


Rectangular Disc Super Structure - Lowered

Adjustment platform prototype:

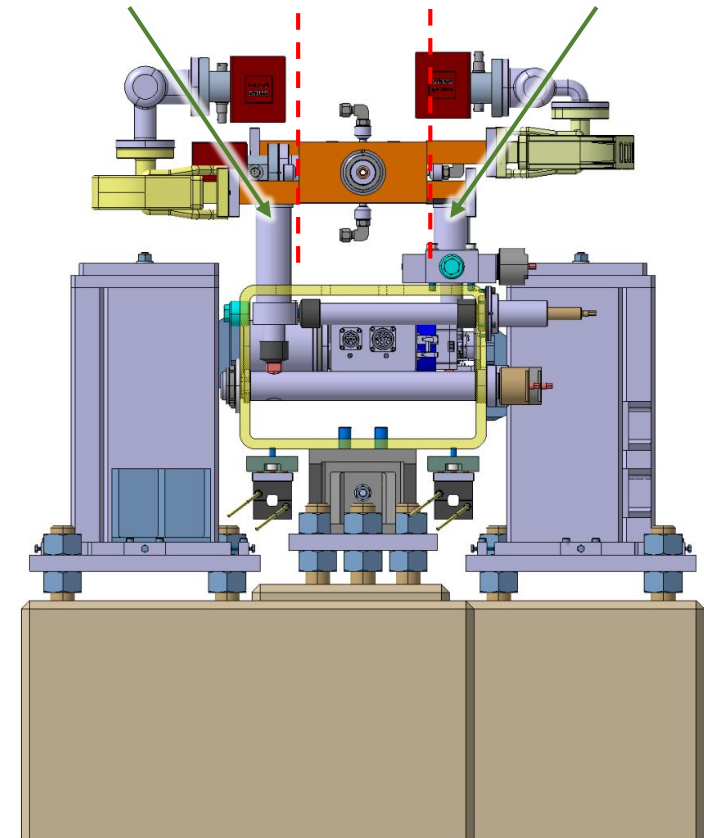
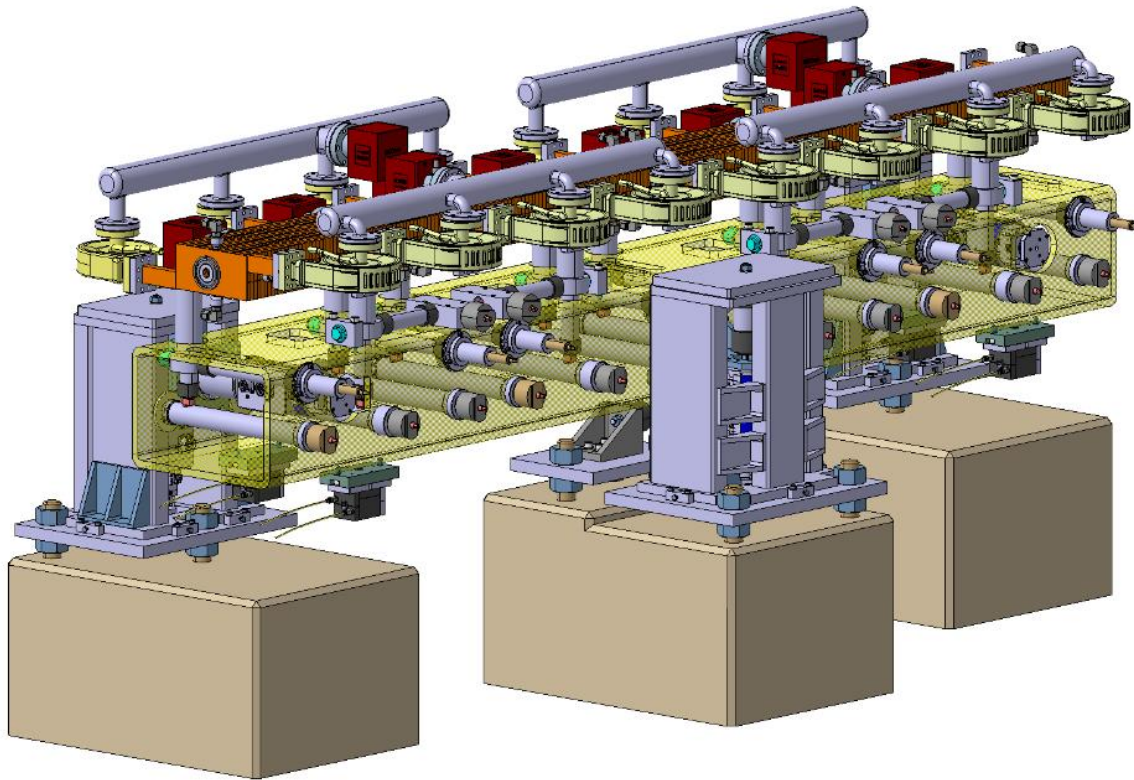


Space below structure no longer needed for manifold

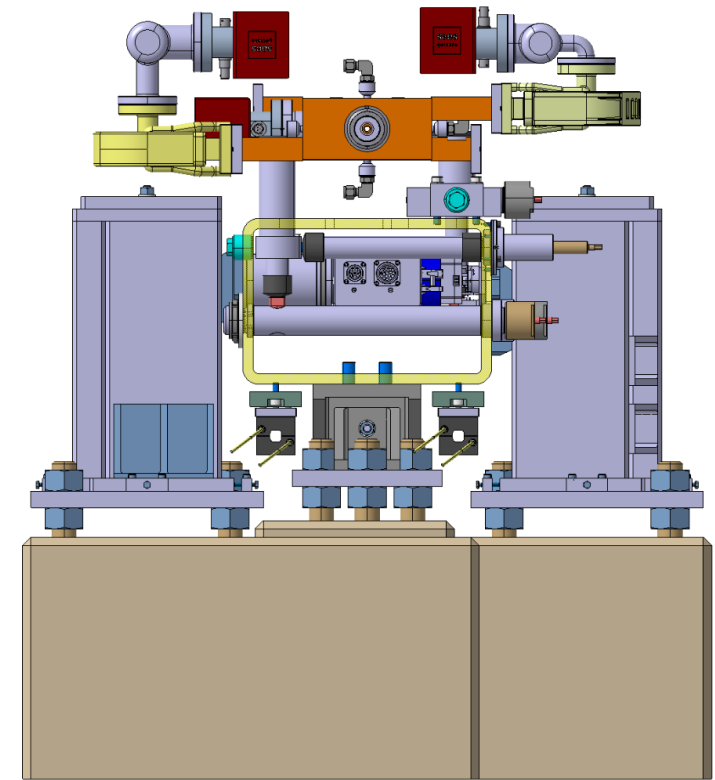
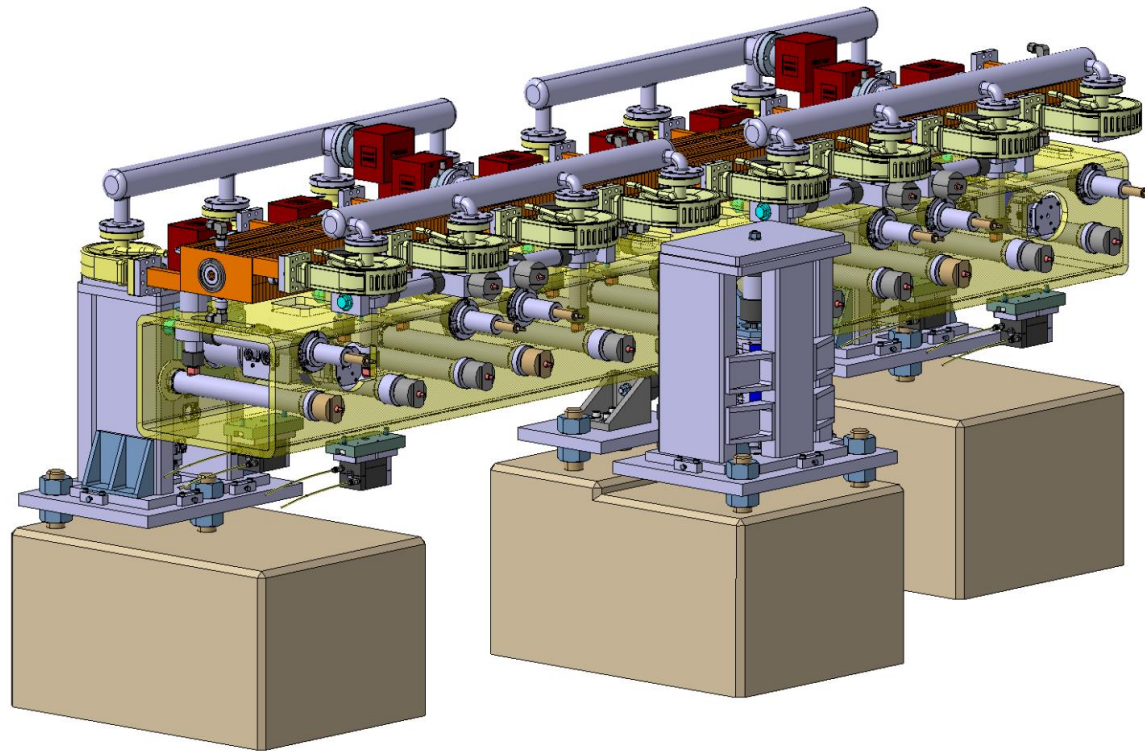


Rectangular Disc Module

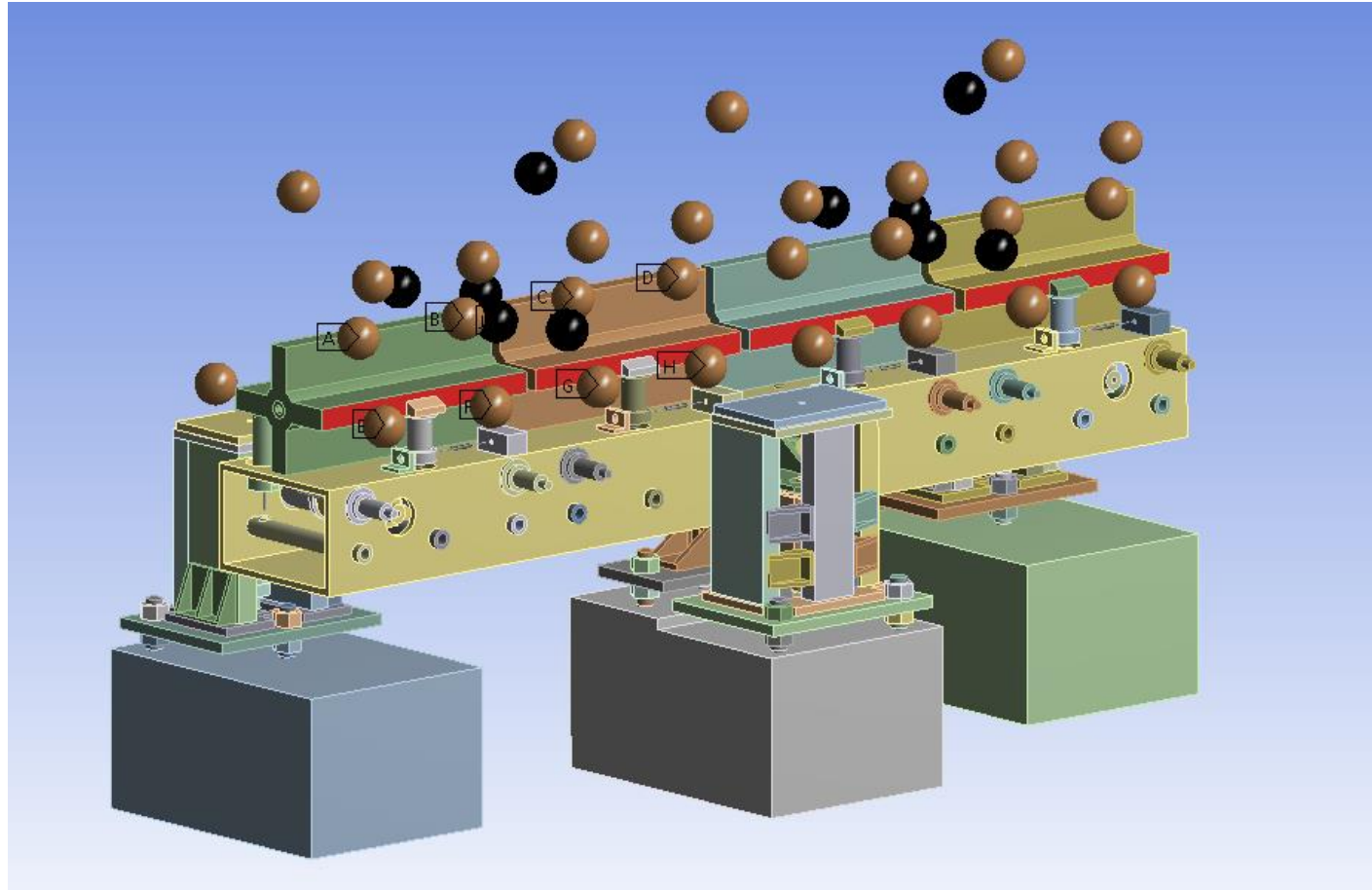
Round structure + manifolds is wider than the thermal test structure, so the current module design has wider apart SAS supports. These can be narrowed.



Rectangular Disc Module - Lowered



Rectangular Disc Module – Support Design



Girder and supports are based off the most recent results from the vibration and stability analysis, using joints of the diameter:

- 23mm (SAS positioning system)
- 33mm (girder positioning system)

These appear to provide a good compromise between stiffness and size for practical integration.