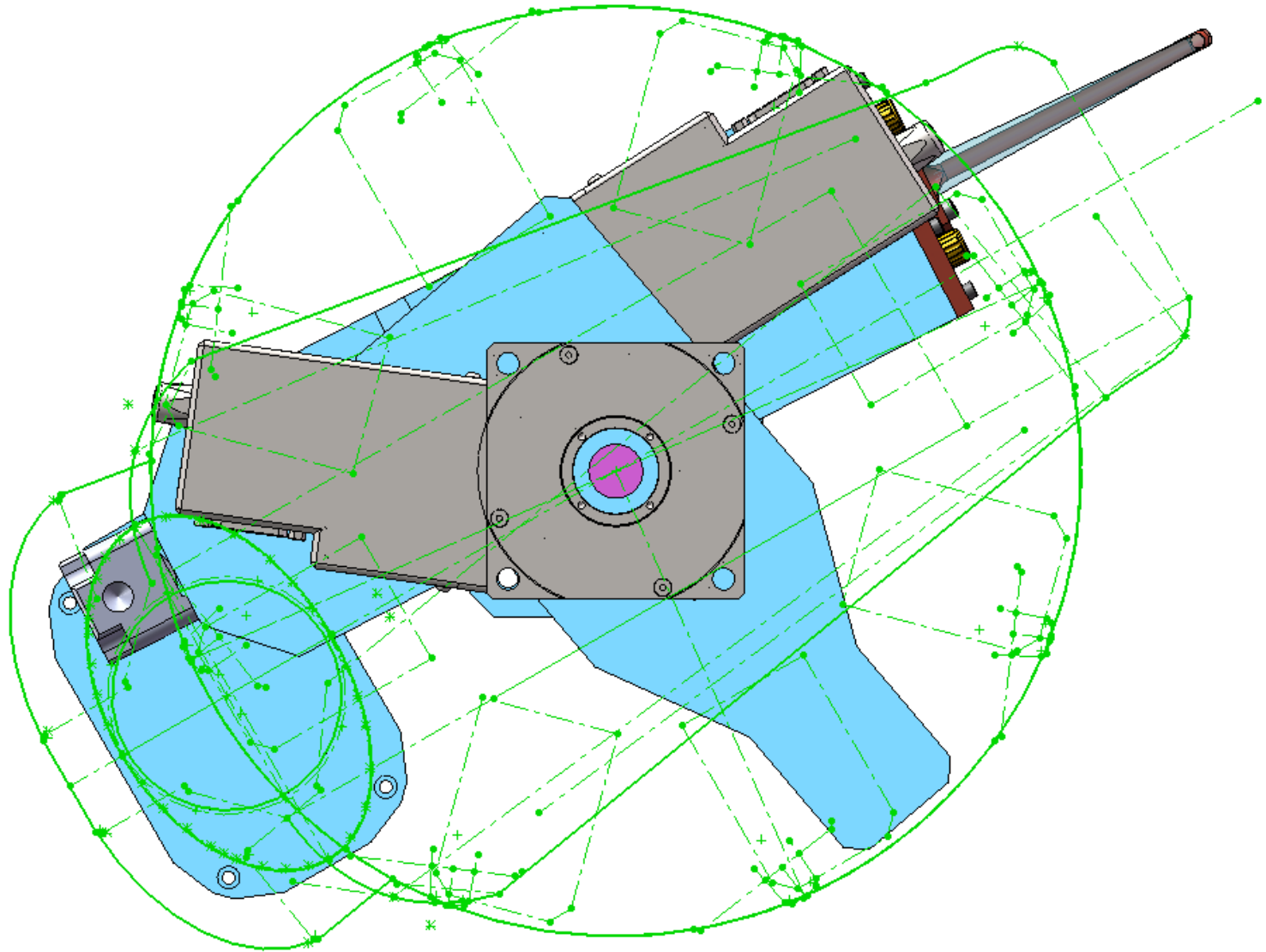


NGAO OSM

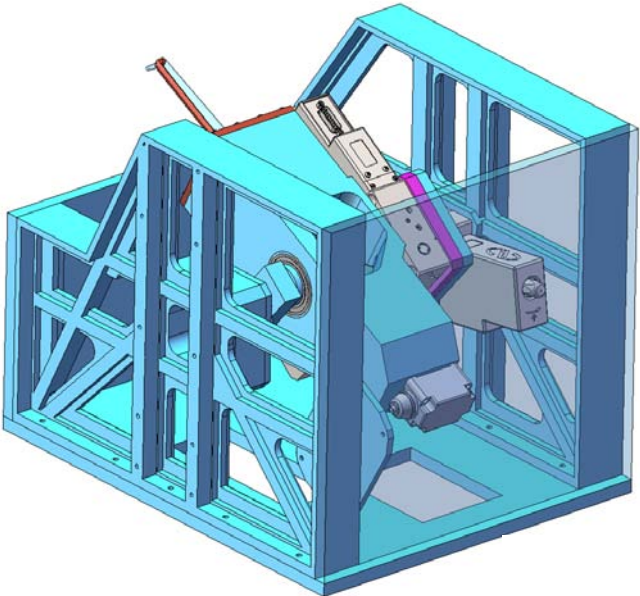
Design Study Update

Alex Delacroix
08/25/2009
Version 13

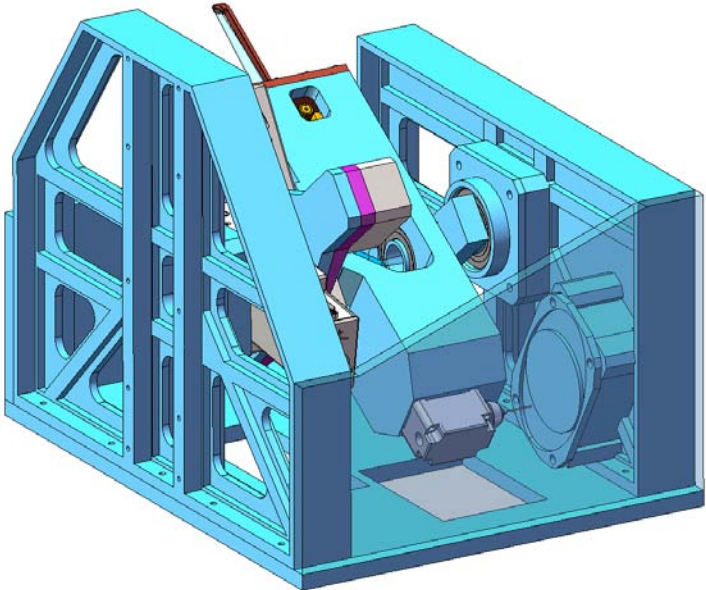
RANGE OF MOTION ENVELOPE



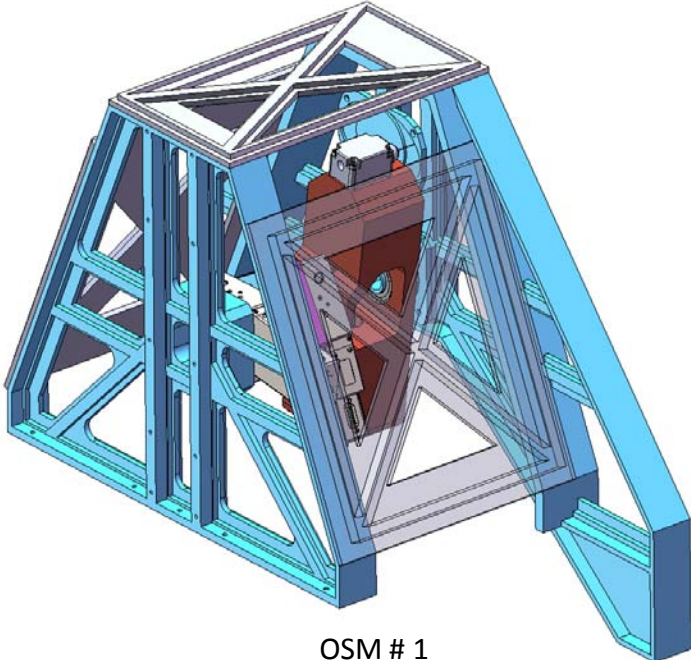
OSM UNITS ASSY



OSM # 3
(a1 = -20)

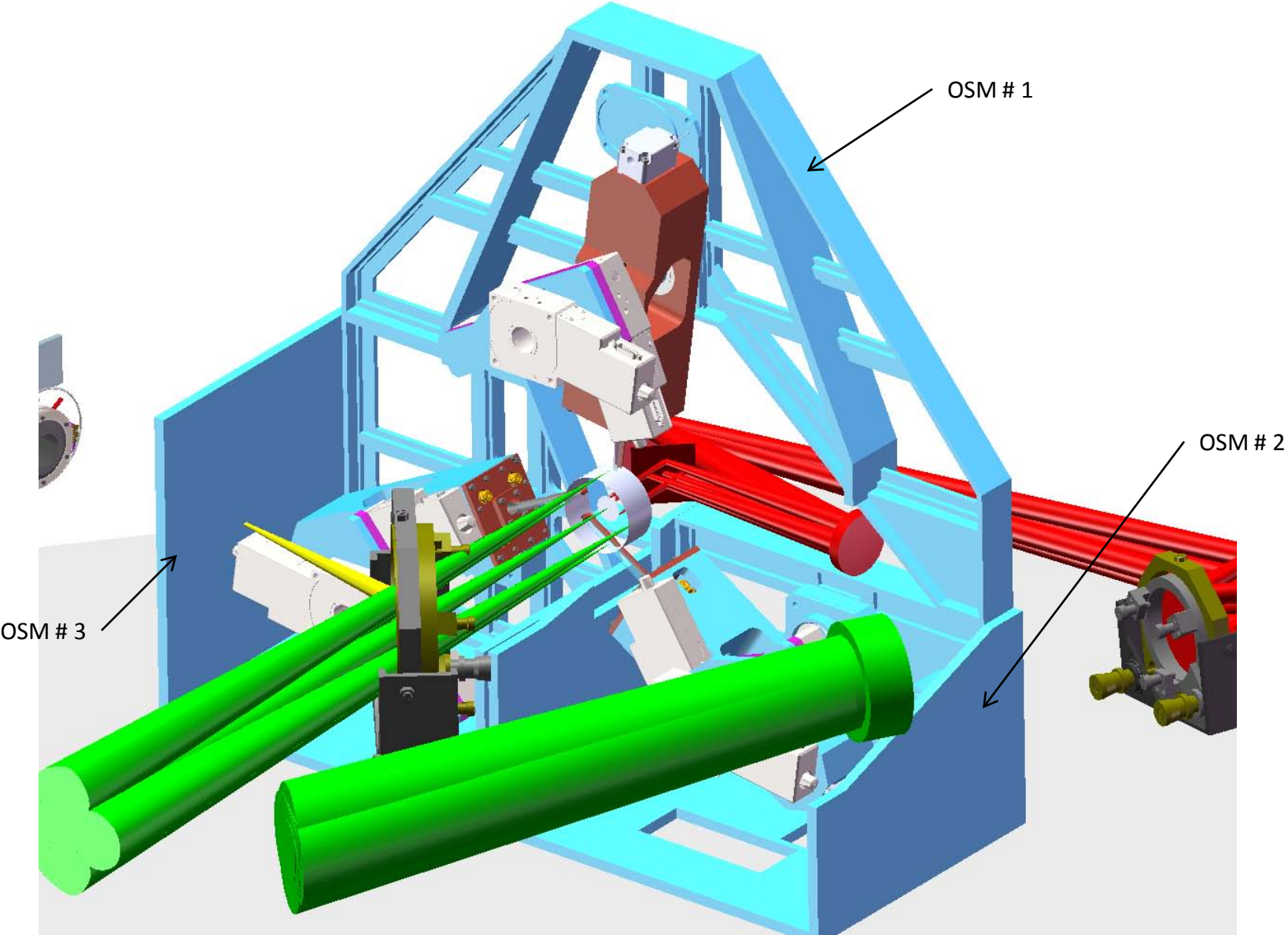


OSM # 2
(a1 = -5)



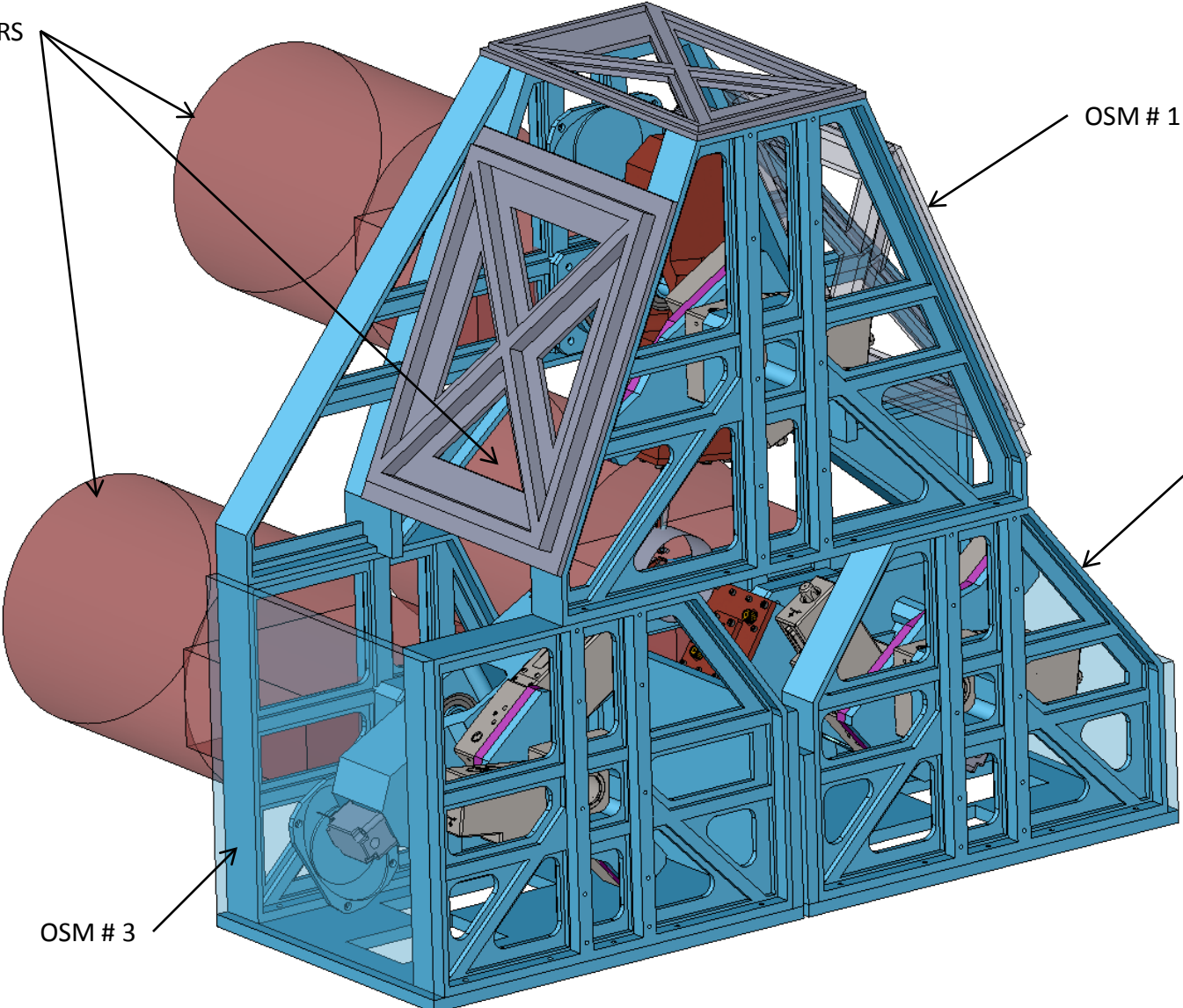
OSM # 1
(a1 = 10)

LOWFS ASSY



LOWFS ASSY

DEWARS

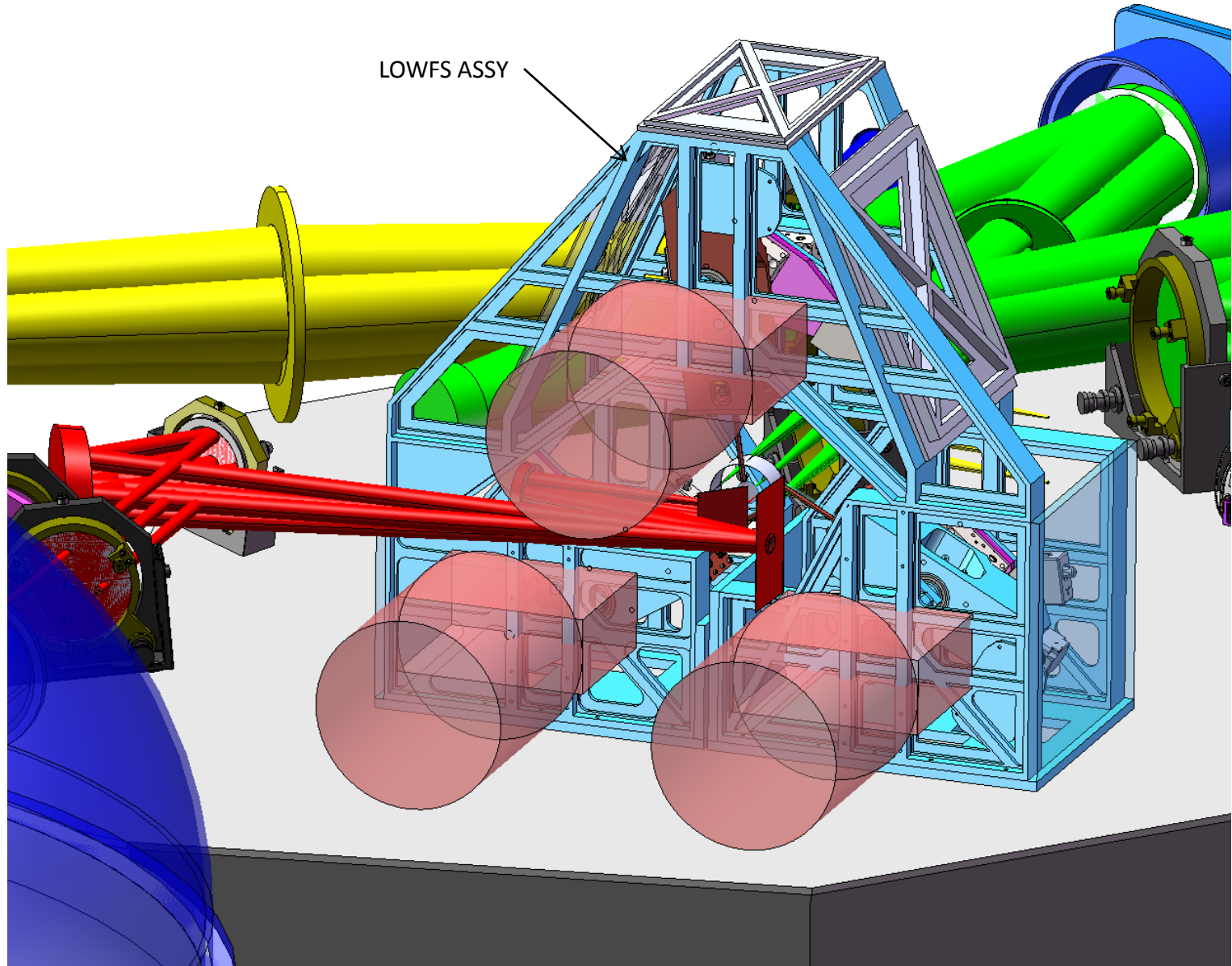


OSM # 1

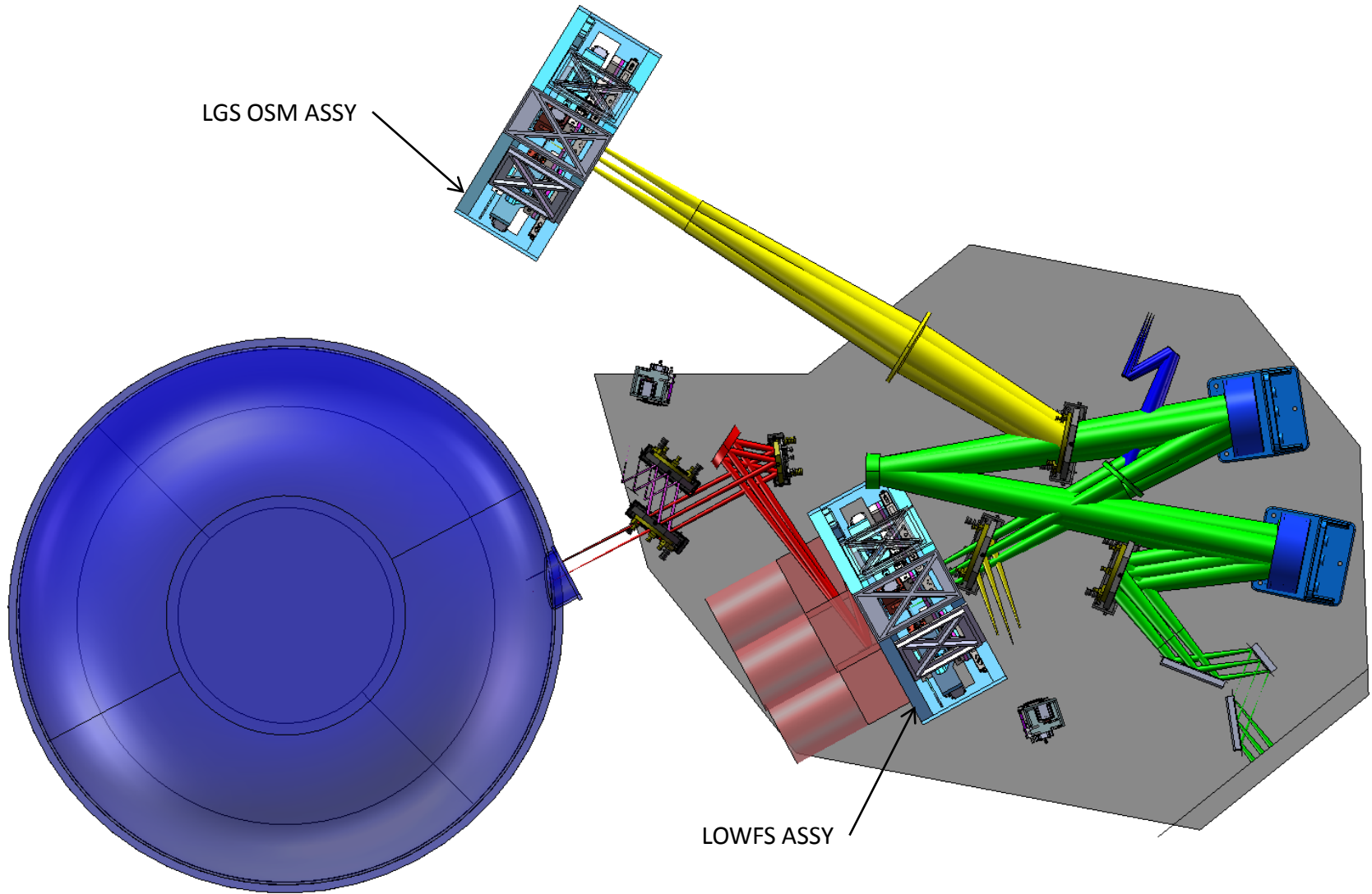
OSM # 2

OSM # 3

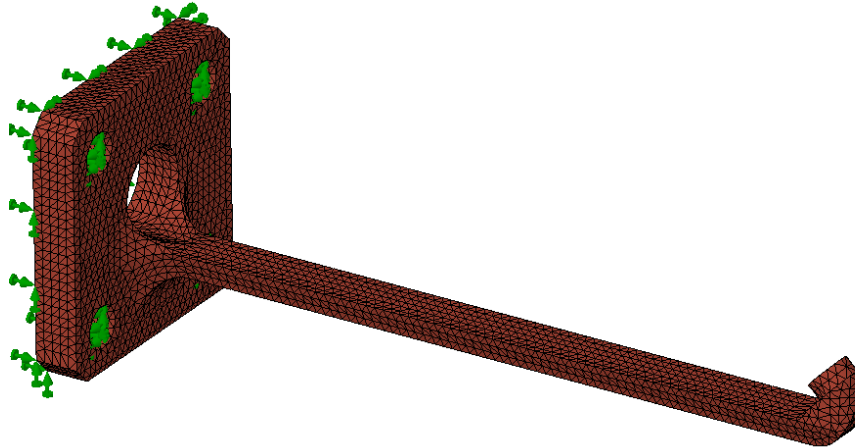
KNGAO ASSY, ISO VIEW



KNGAO ASSY, TOP VIEW



FREQUENCY ANALYSIS



List Modes

Study name: Study 1

Mode No.	Frequency(Rad/sec)	Frequency(Hertz)	Period(Seconds)
1	1671.8	266.07	0.0037584
2	1939	308.6	0.0032404
3	10801	1719	0.00058174
4	12377	1969.9	0.00050764
5	24868	3957.9	0.00025266

Close Save Help

Remaining work to be done

- Analyze Tip/Tilt Mirror Vibrations and Impact on Probe stabilization.
- System rigidity Analysis

Questions:

- Probe position Accuracy: 40 (KAON 562) or 70 mas (Contour)
- Minimum Incremental motion ?
- Max Wobble?
- Position Stability (5 mas / 3600 s) TBC
- TT Requirements (Deflection, response, resolution,...)