

# Status of IB mechanics

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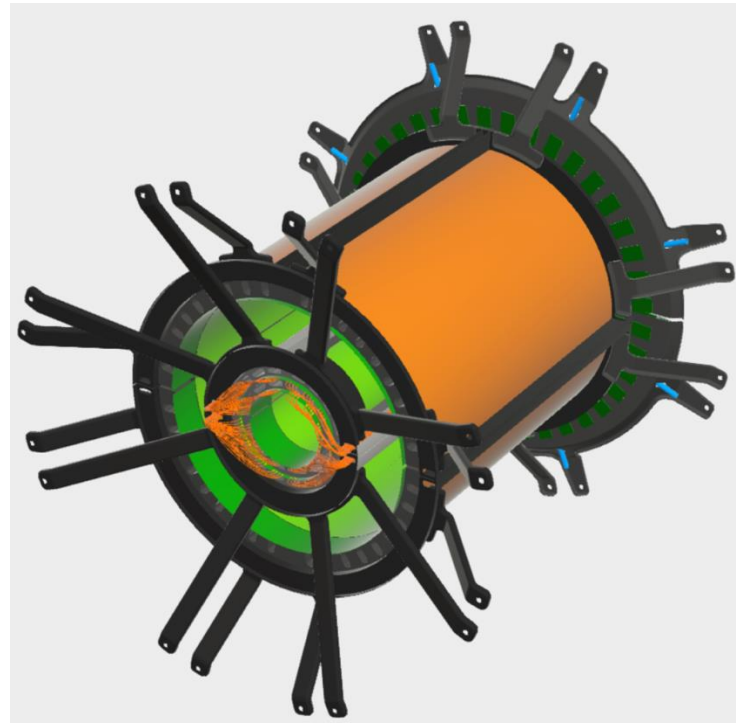
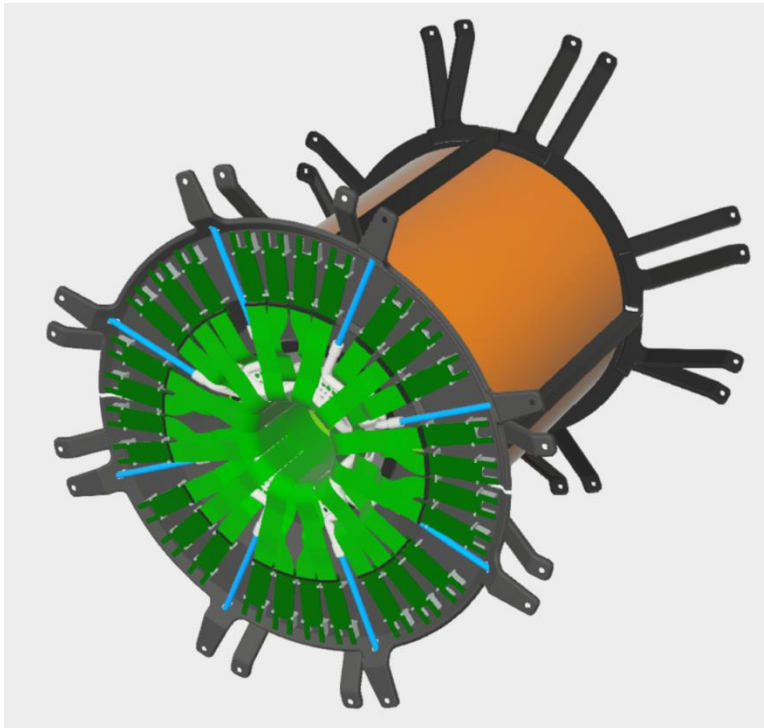
SVT working meeting

Oxford, UK

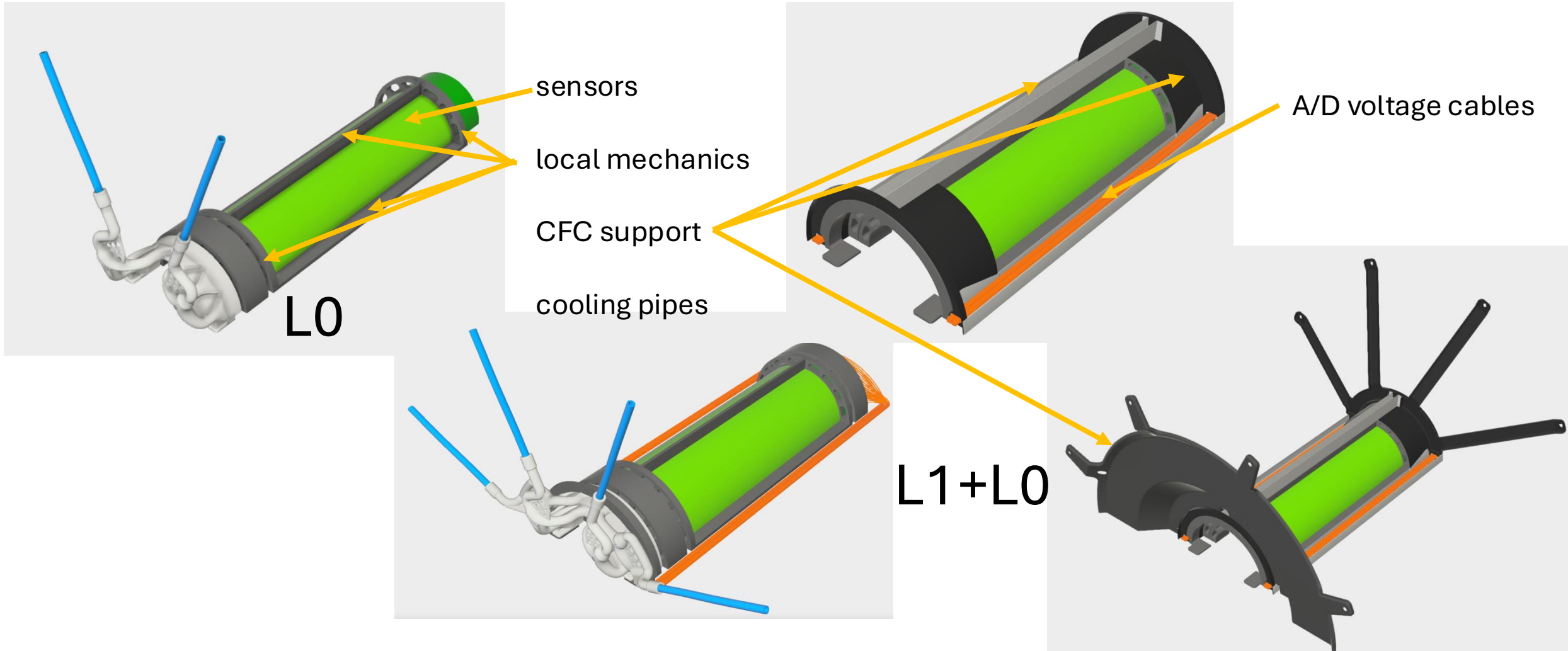
# Global IB support design status

Current global support design

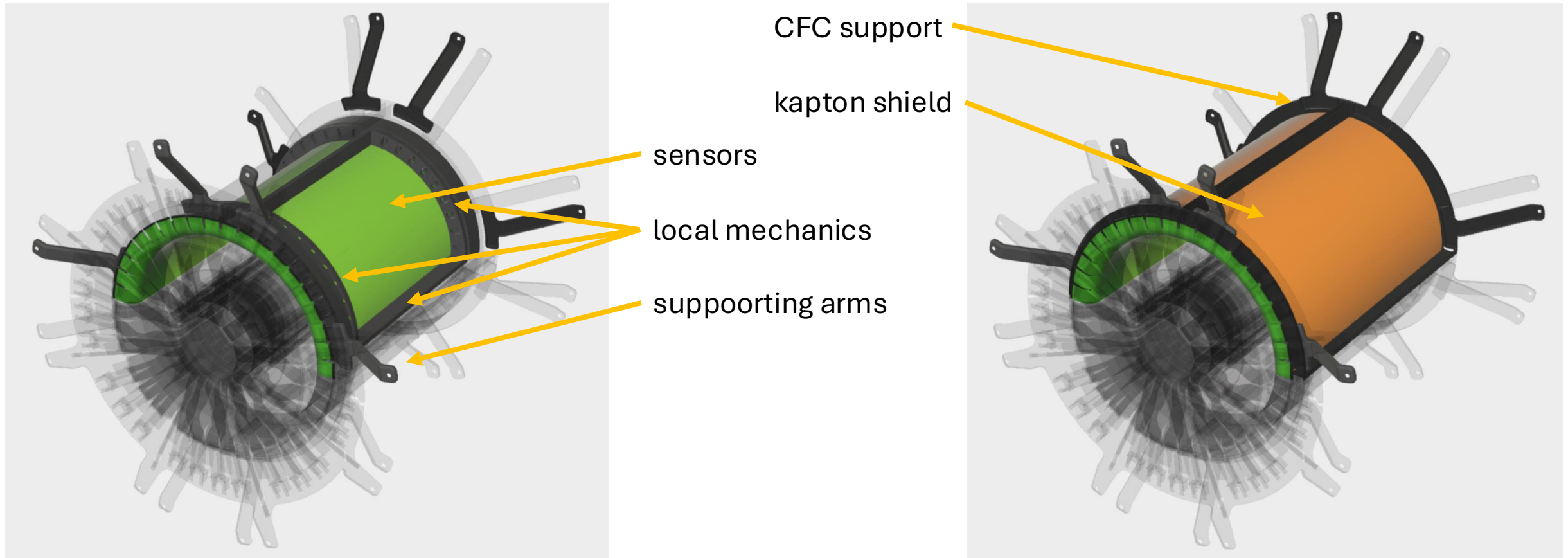
- added SIB boards (with caveats)
- extended h-side cone to support SIBs
- same will apply to L2 support
- new material budget soon will be checked



# L0 and L1 support



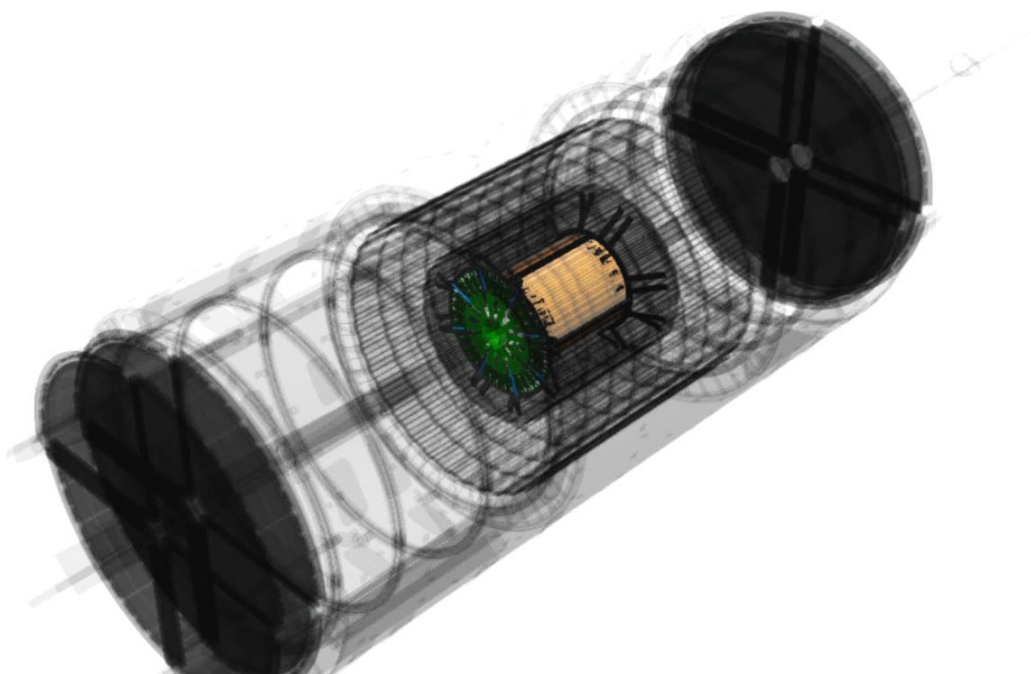
# Current L2 mechanical structure



Air manifolds will be added – air flow foreseen between sensors and shield

## Integration in the general CAD model

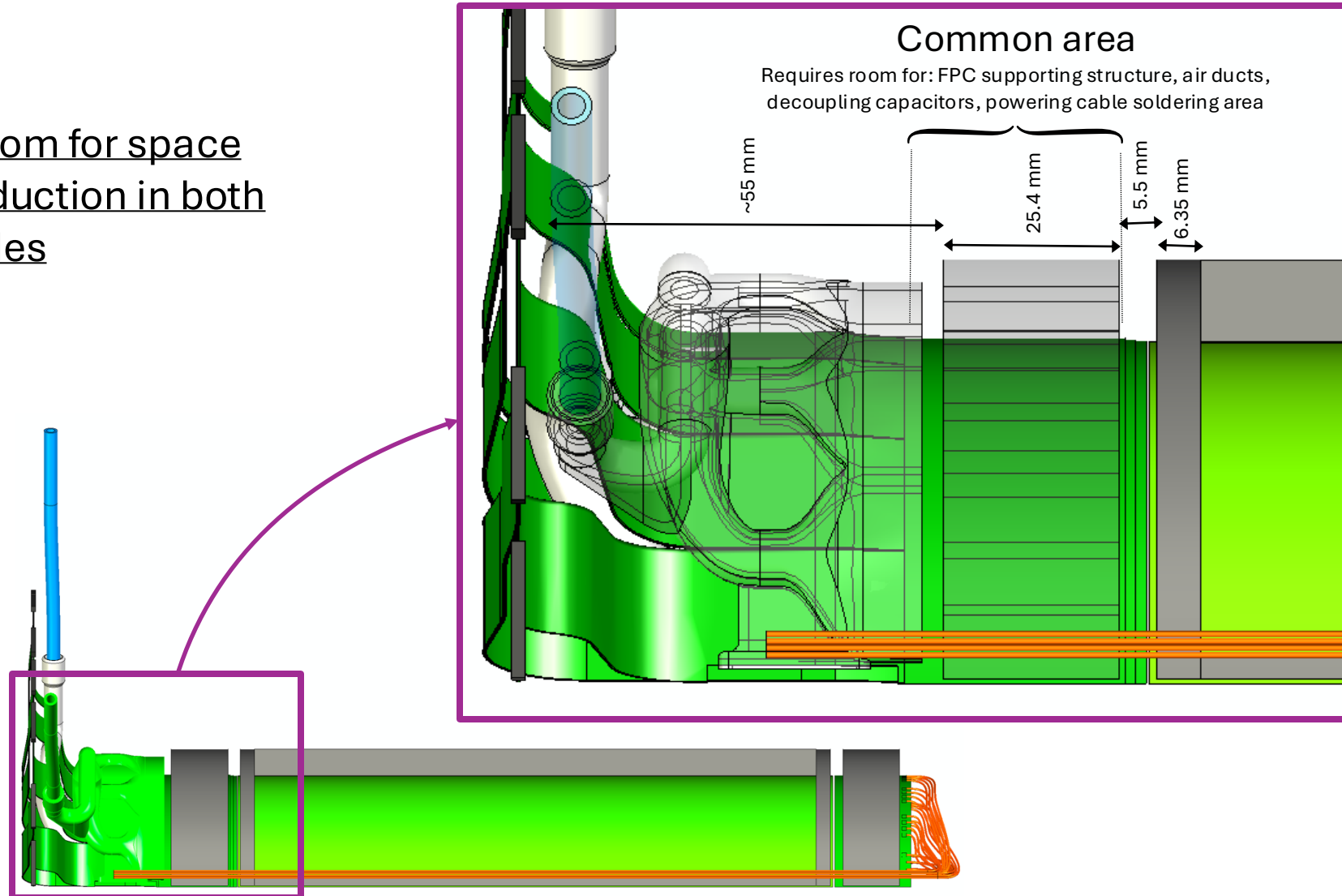
- last model delivered (10 dec)
- no interferences
- weight estimates published
- reference frame aligned with general CAD



HALF BARREL											BARREL
	sensor	HalfRing + Longers	FPC	CABLES	SUPPORT CABLE	HALF RING "h" SIDE	HALF RING "e" SIDE	FRAME AIR COOLING	CILINDER SUPPORT	COOLING SUPPORT	
<b>L0</b>											
density g/dm3	2330	230	8960	8960	1900	230	230	1320			
volume dm3	0	0.043	0.01	0.01	5E-04	0.025	0.03	0.03			
weight g	3.64	9.85	91.7	59.6	1.024	5.855	6.14	39.13			<b>tot. 216.97</b>
<b>L1</b>											
density g/dm3	2330	230	8960	8960	1900	230	230	1320	1650	1650	
volume dm3	0	0.045	0.01	0.01	7E-04	0.032	0.03	0.028	0.039	0.006	
weight g	4.85	10.44	107	77.1	1.366	7.281	7.67	37.18	63.56	10.5	<b>tot. 326.50</b>
<b>L2</b>											
density g/dm3	2330	230	8960	8960	1900	230	230	1320	1650	1650	
volume dm3	0.01	0.175	0.02	N.N.	0.002	0.158	0.16	N.N.	0.07	N.N.	
weight g	12.1	40.3	148	N.N.	3.397	36.37	37.3	N.N.	114.9	N.N.	<b>tot. 392.97</b>
											<b>TOT 936.43</b>
											<b>TOTAL 1872.87</b>

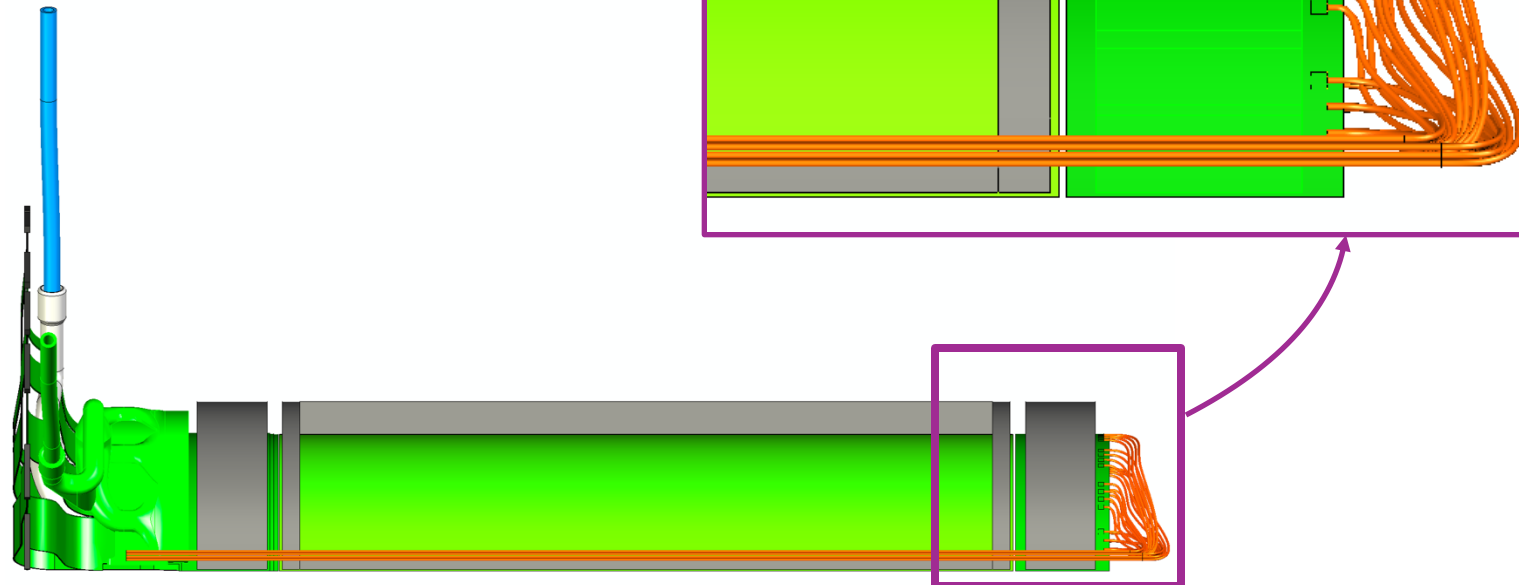
# Reshaping of FPC and support – h side

Room for space  
reduction in both  
sides



# Reshaping of FPC and support – e side

Room for space  
reduction in both  
sides





Thank you for the attention