

DE LA RECHERCHE À L'INDUSTRIE  
cea



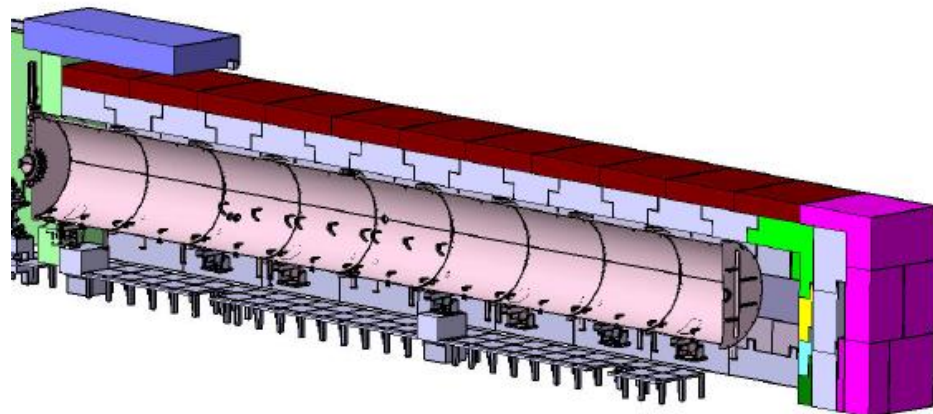
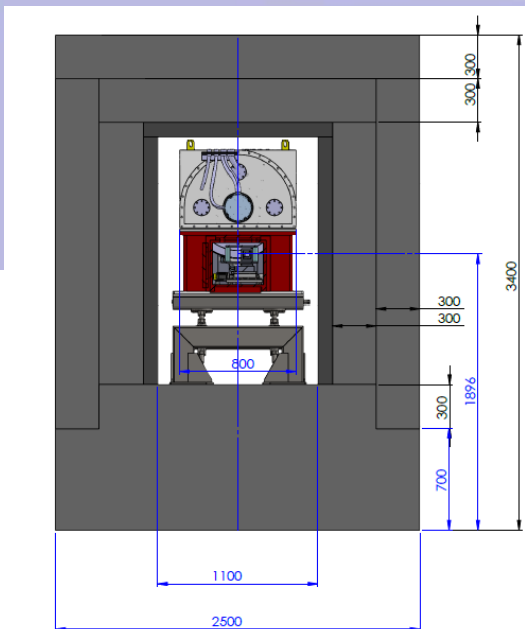
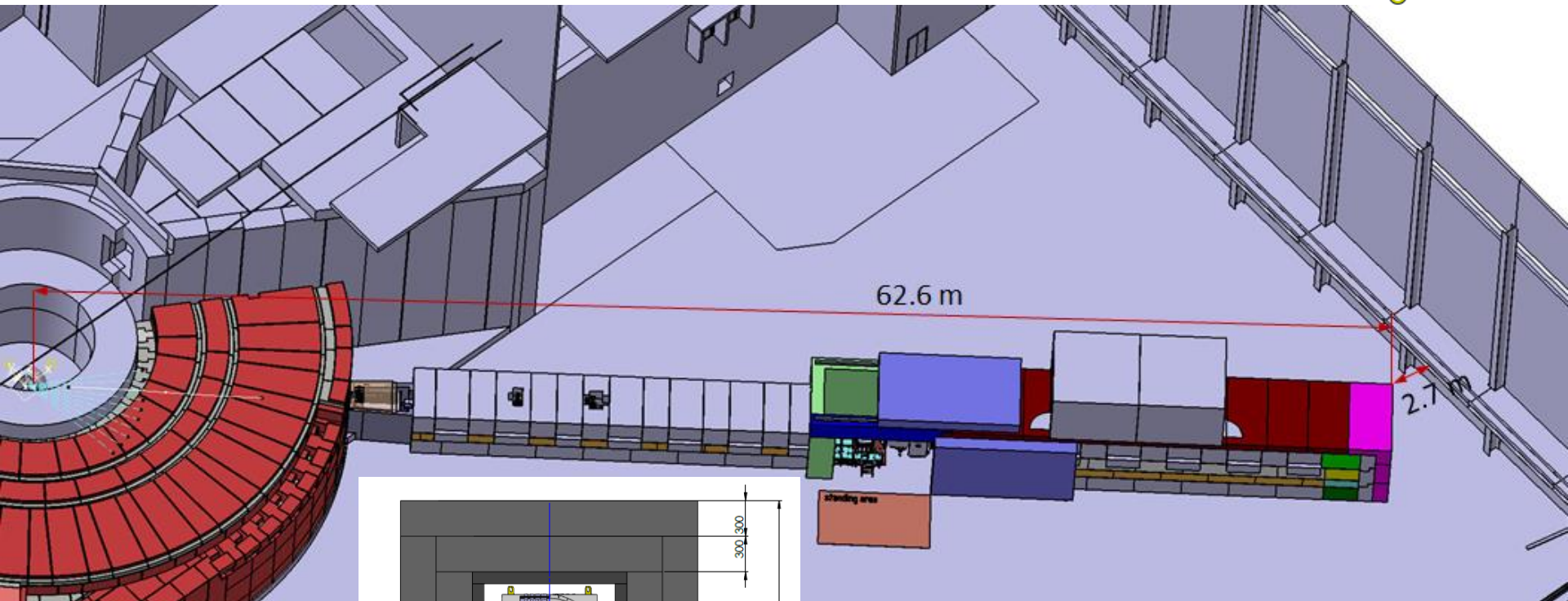
# Shielding Workshop

## LLB tasks for ESS

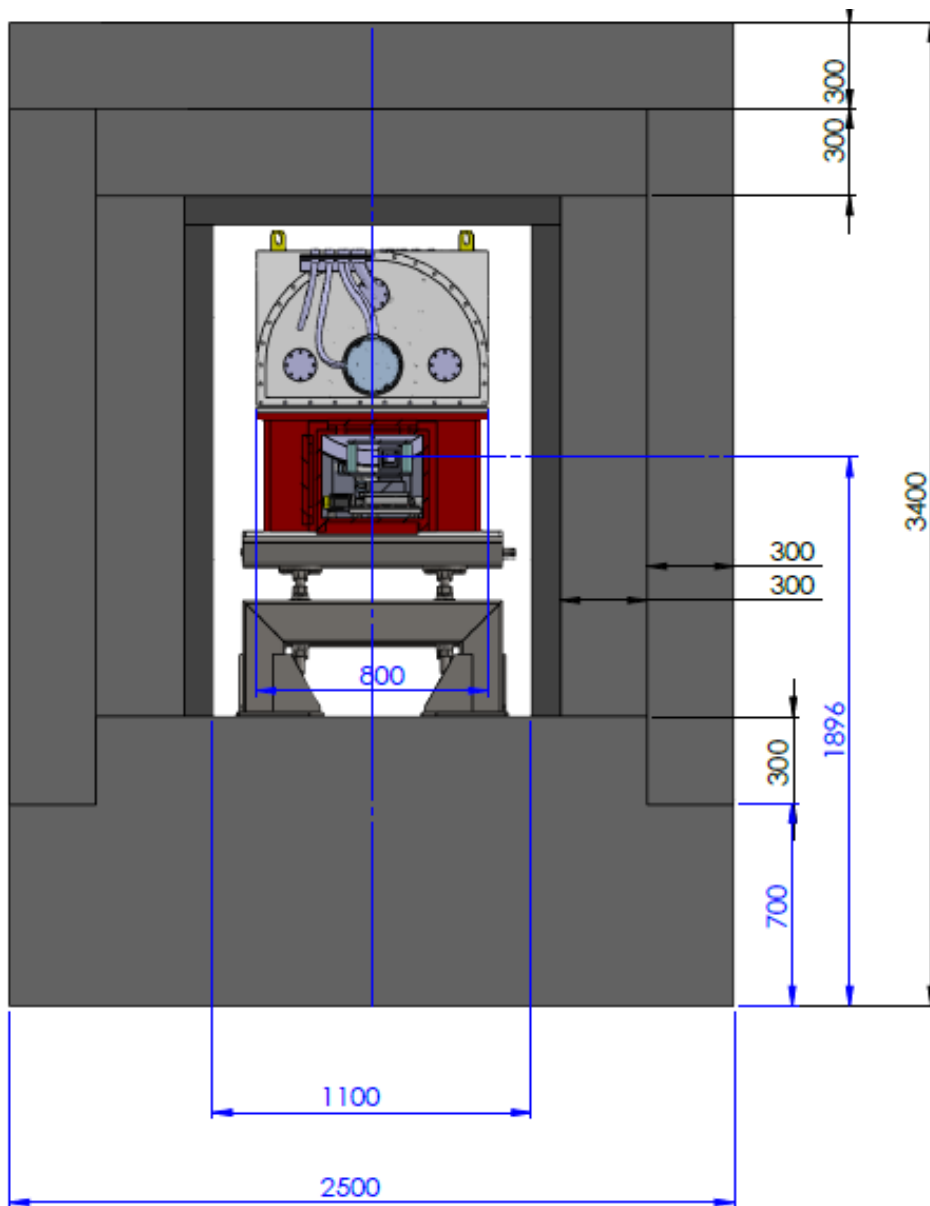
# 5 instruments

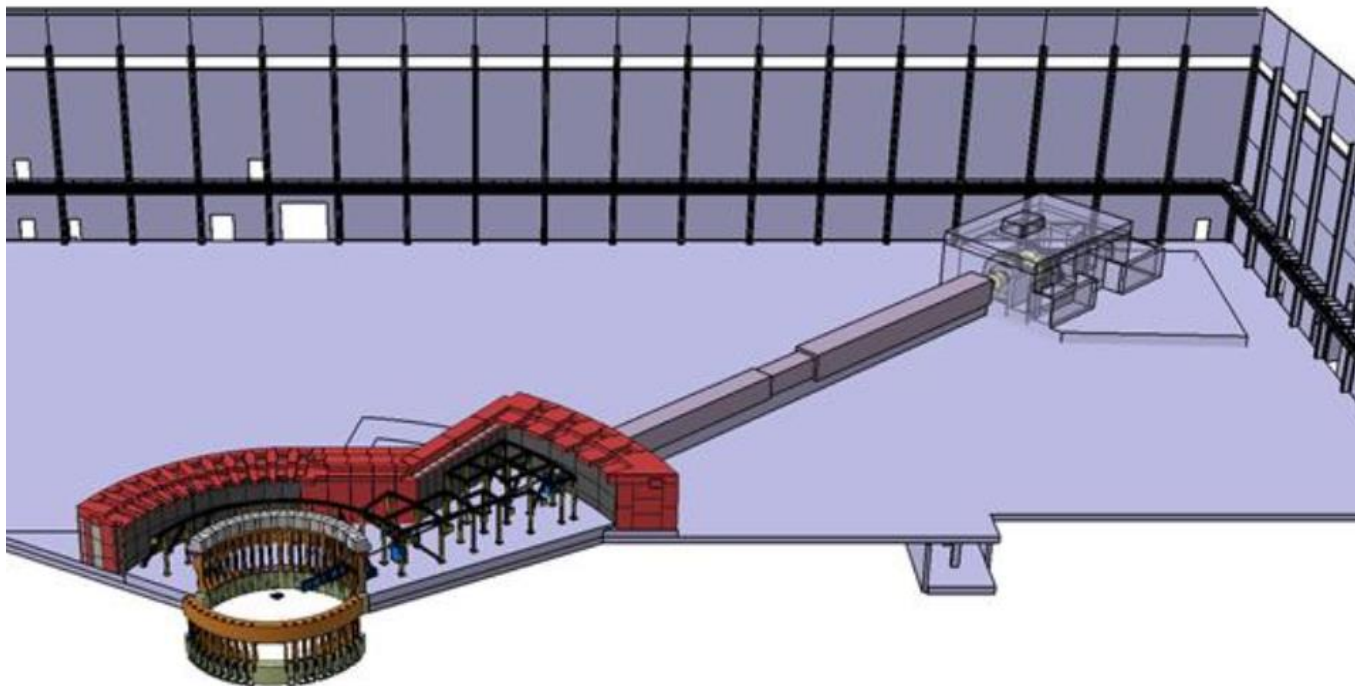
			MAGiC	CSPEC	SKADI	DREAM	BIFROST
1.7	Beam Cutoff						
	1	Heavy Shutter	1				
	3	Beamstop	1	1	1		
	1	Secondary Shutter	1				
1.9	Beamline Shielding						
	1	In-bunker	1				
	2	Beamline	1		1	1	
	3	Guide	1		1	1	
Optical Cave							
4.1	PSS				1		
4.2	Utilities Distribution				1		
4.3	Support Infrastructure				1		
4.4	Shielding				1		
4.5	Cave Structure				1		
Experimental Cave							
5.1	PSS		1		1	1	
5.2	Utilities Distribution		1	1		1	
5.3	Support Infrastructure		1	1		1	
5.4	Shielding		1	1		1	
5.5	Cave Structure		1	1		1	
5.6	SE utilities supply		1	1		1	

3 instruments with

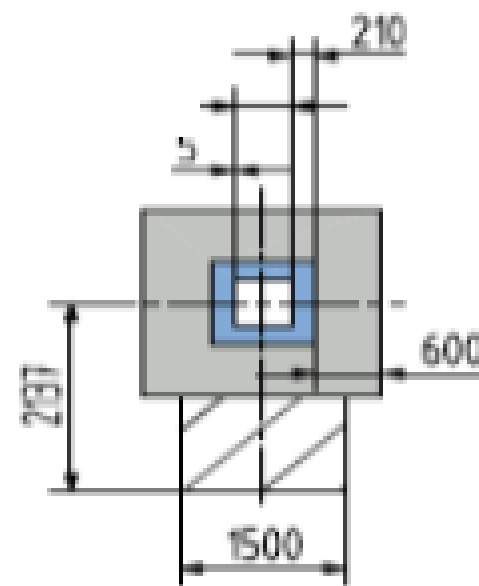


# SKADI

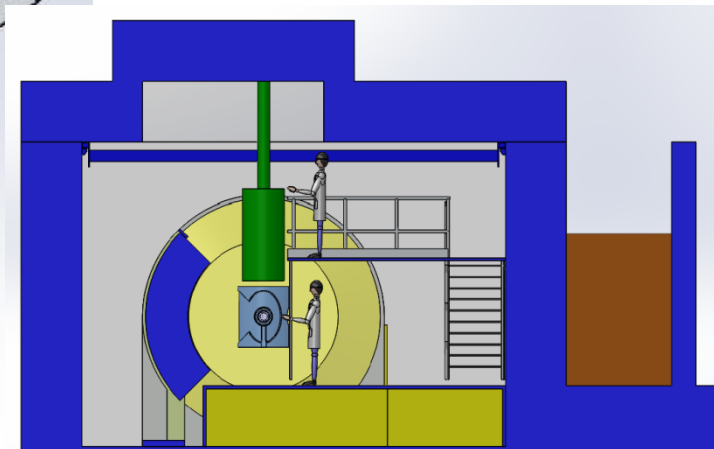
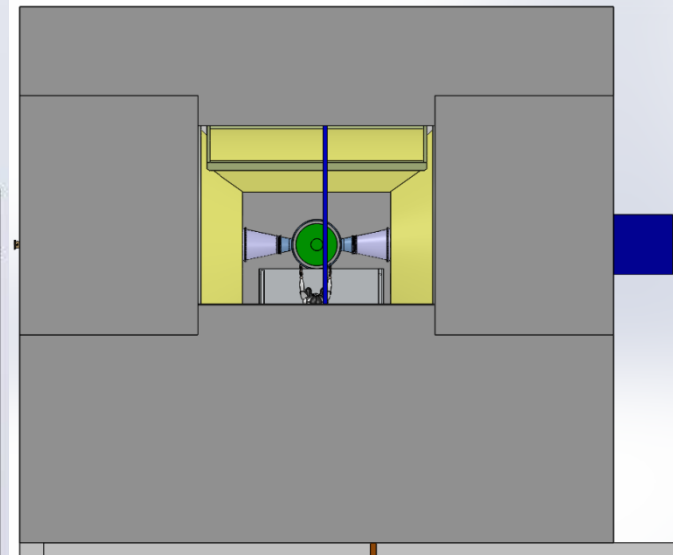
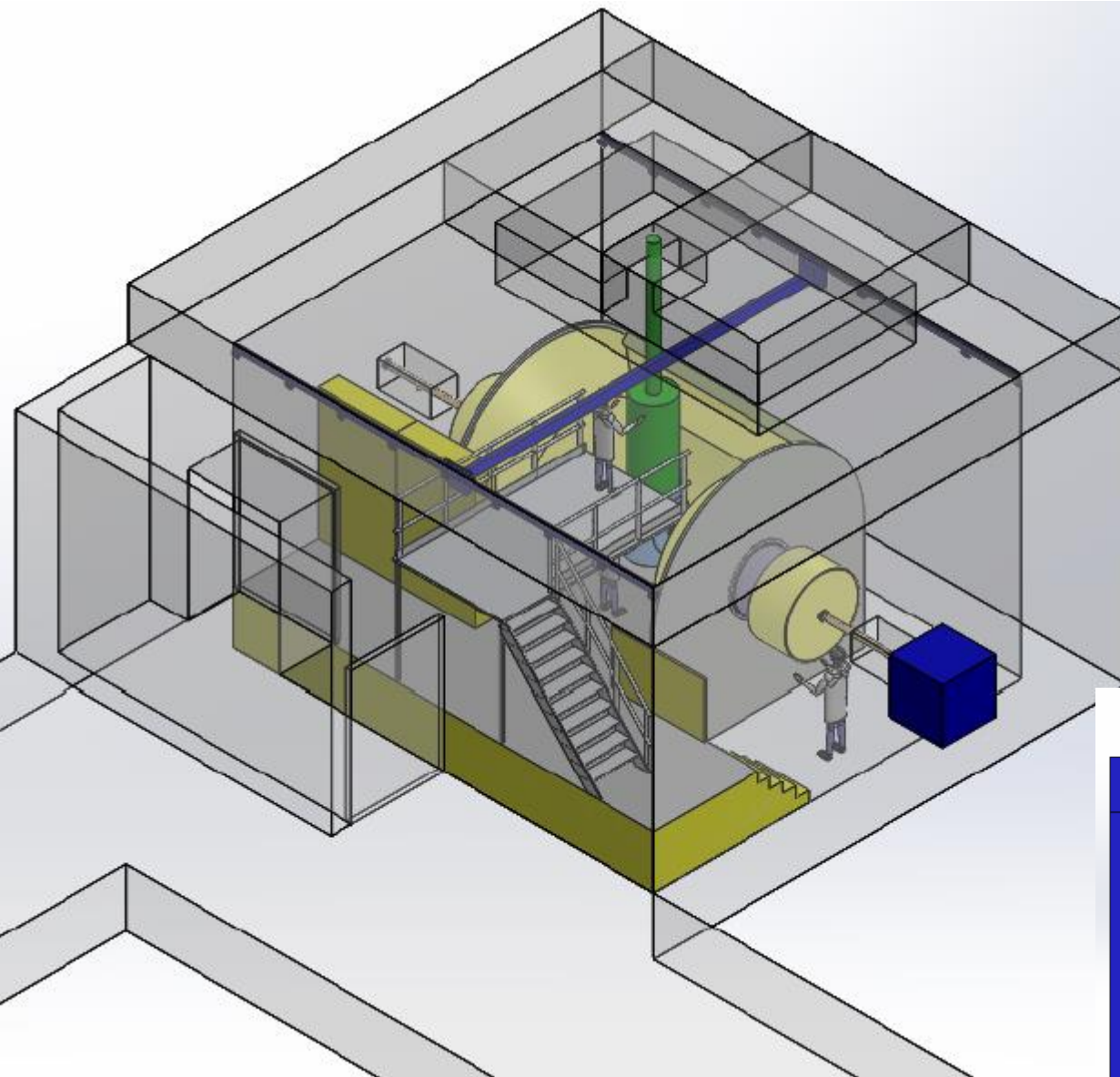


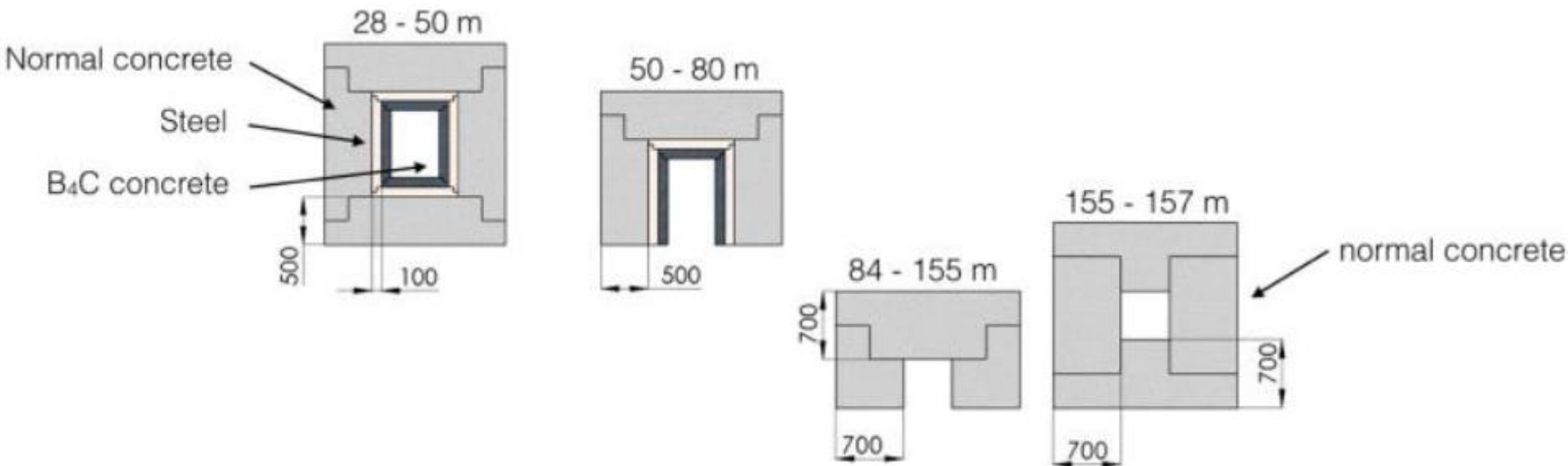
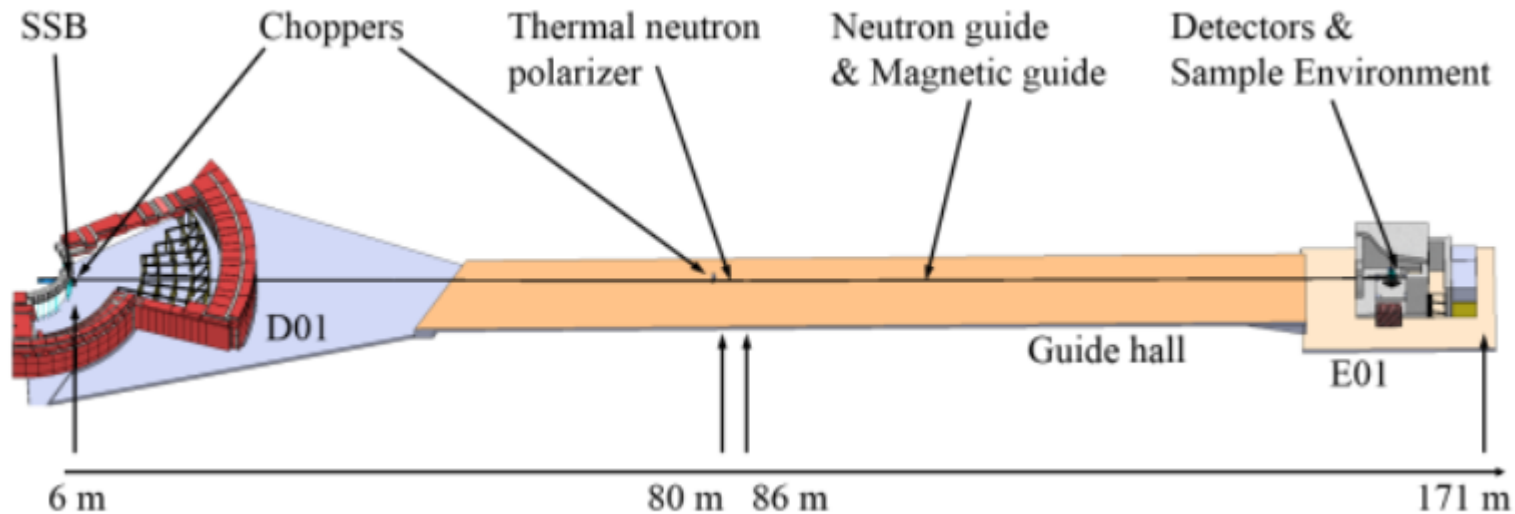


Distance from moderator (m)	Steel thickness (m)	Concrete 2.3 thickness (m)
28 to 45	0.35	0.3
45 to 50	0.25	0.3
50 to 72	0.21	0.6

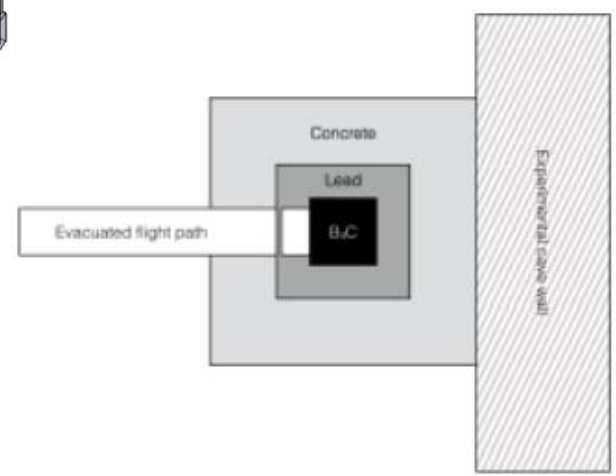
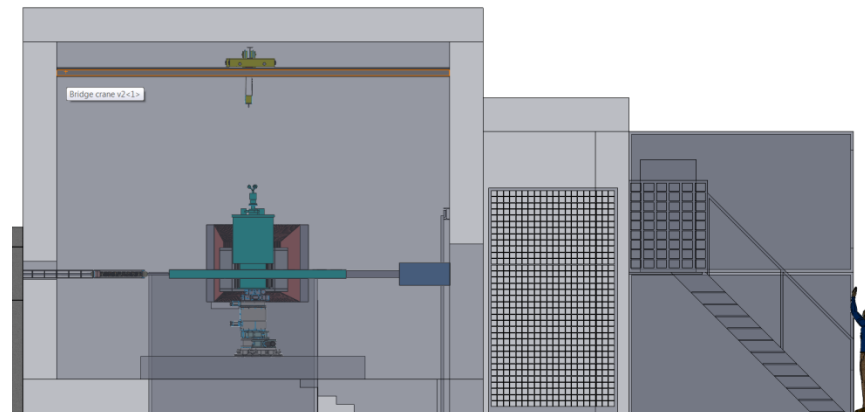
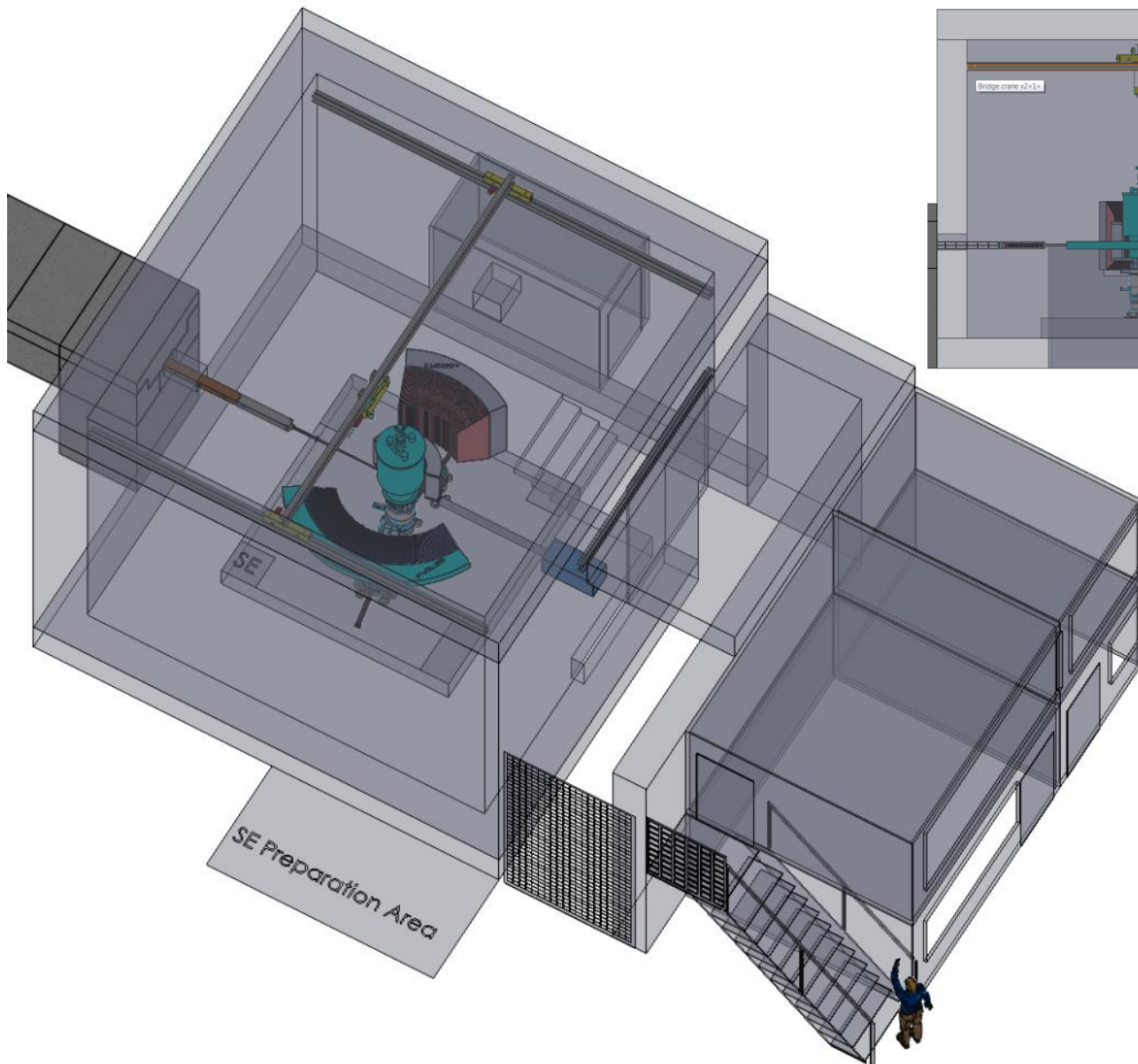




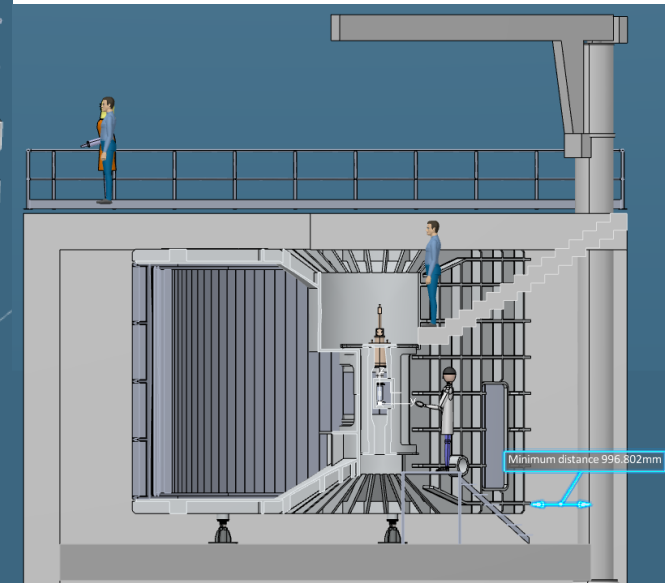
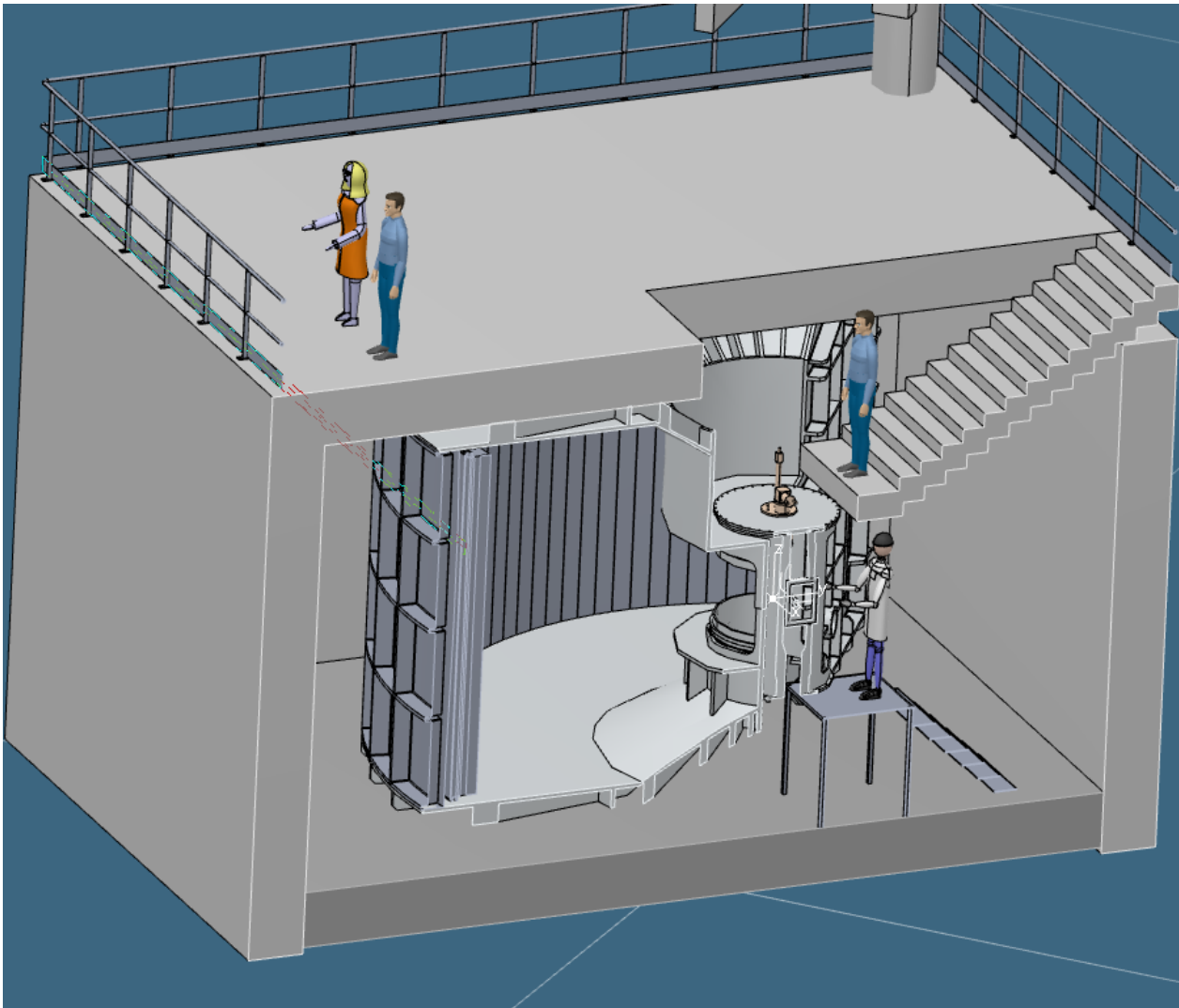




# MAGiC







Compare designs with other teams

Standardised design

Info on Elevated floor in hall East

ESS position on:

- floor overload
- Carsten concrete
- available blocks from CF
- casten solution (unmounting ability)