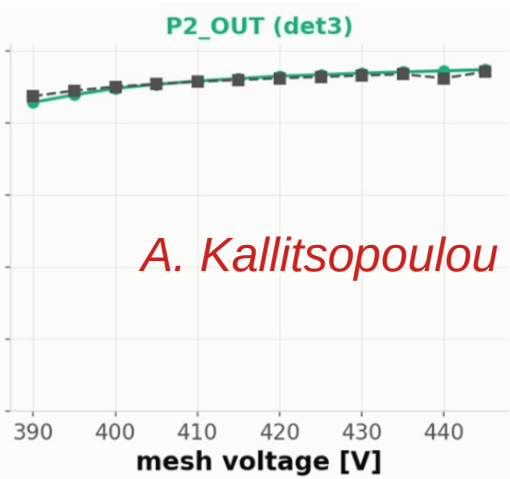
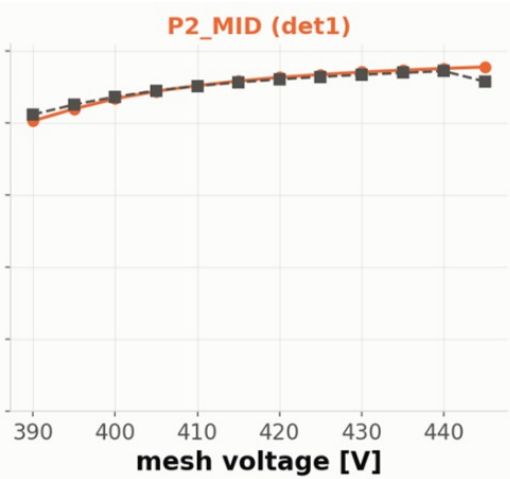
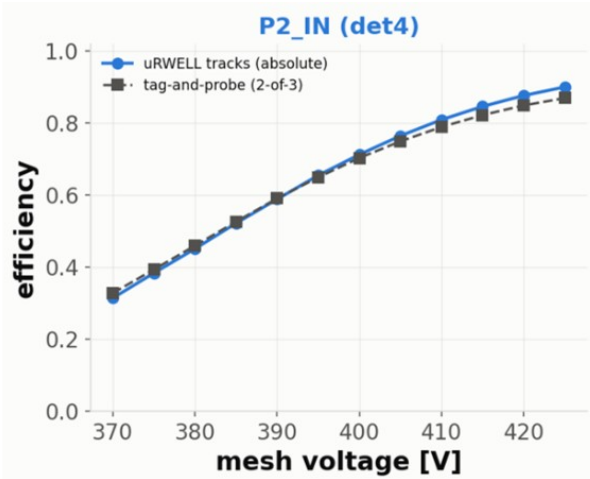
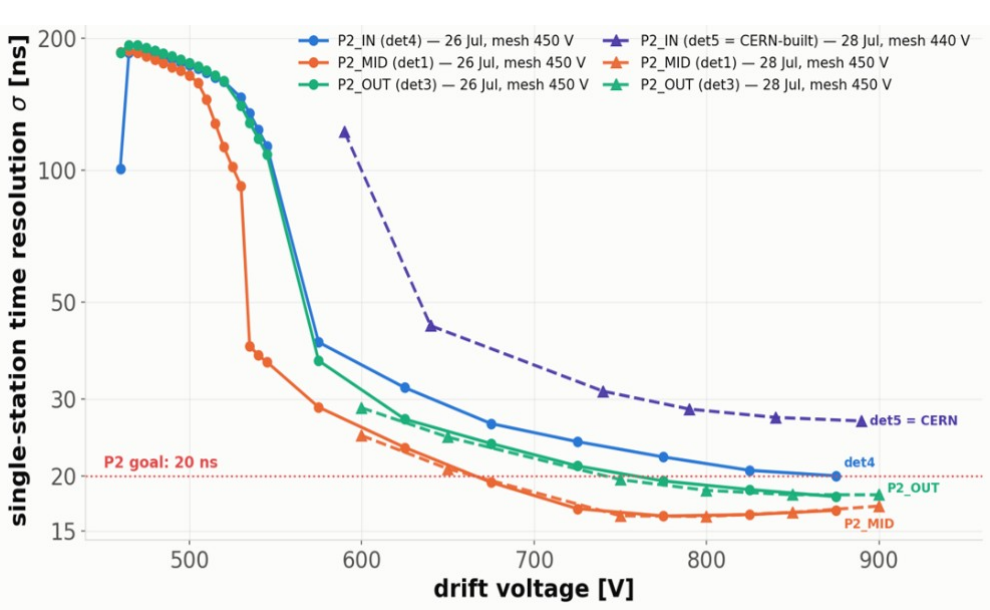




Basket status

Mechanical issues
Interfaces, installation

Slides by S.Cazaux



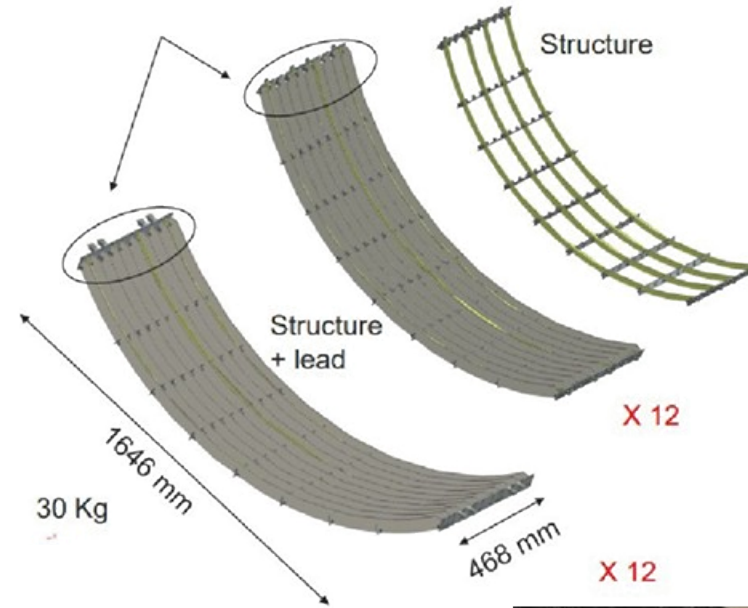
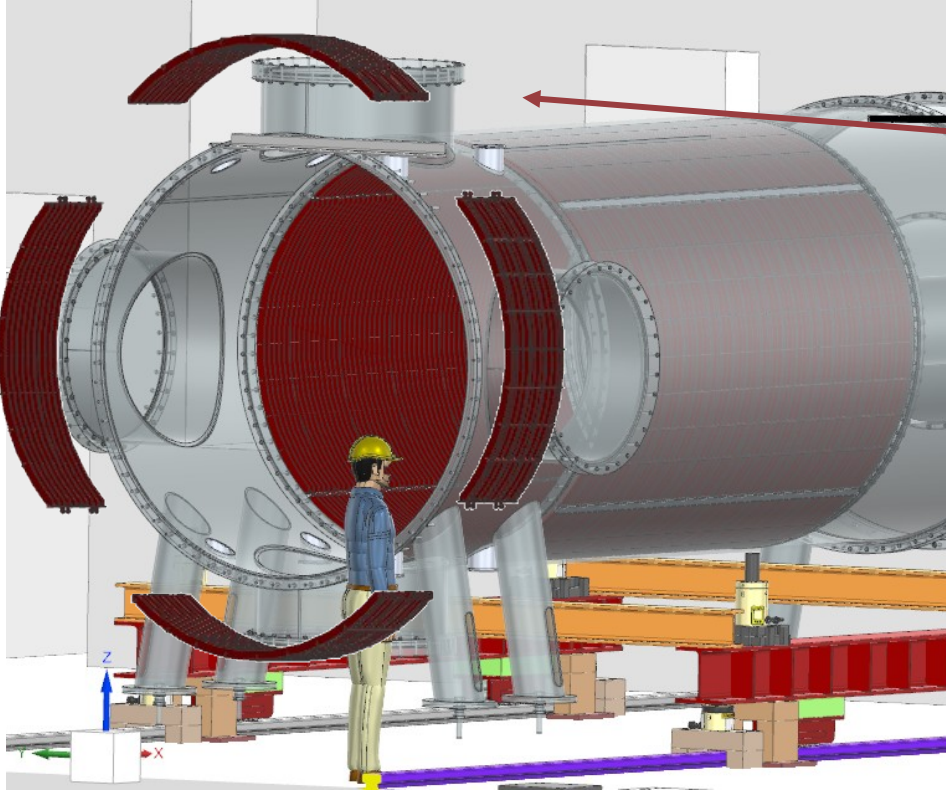
A. Kallitsopoulou

Slide 0

Testbeam at CERN with three size-1 prototypes

Highlights : >95 % hit efficiency ; <20 ns time resolution

Shielding rings (vacuum chamber inner wall)

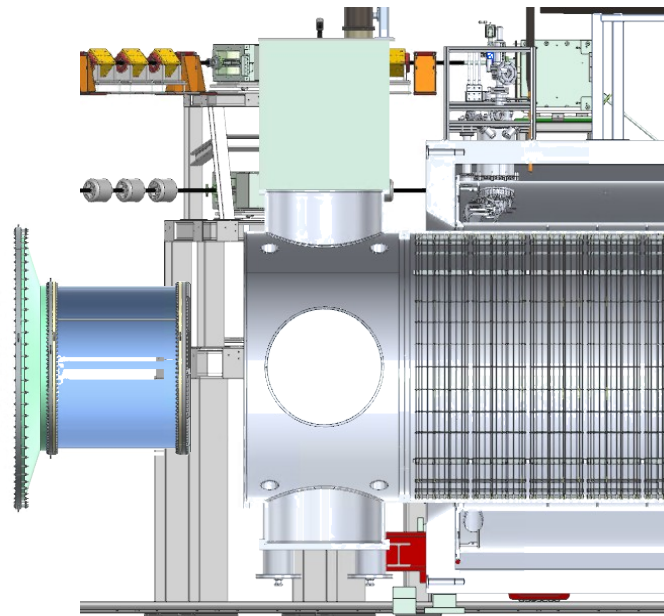
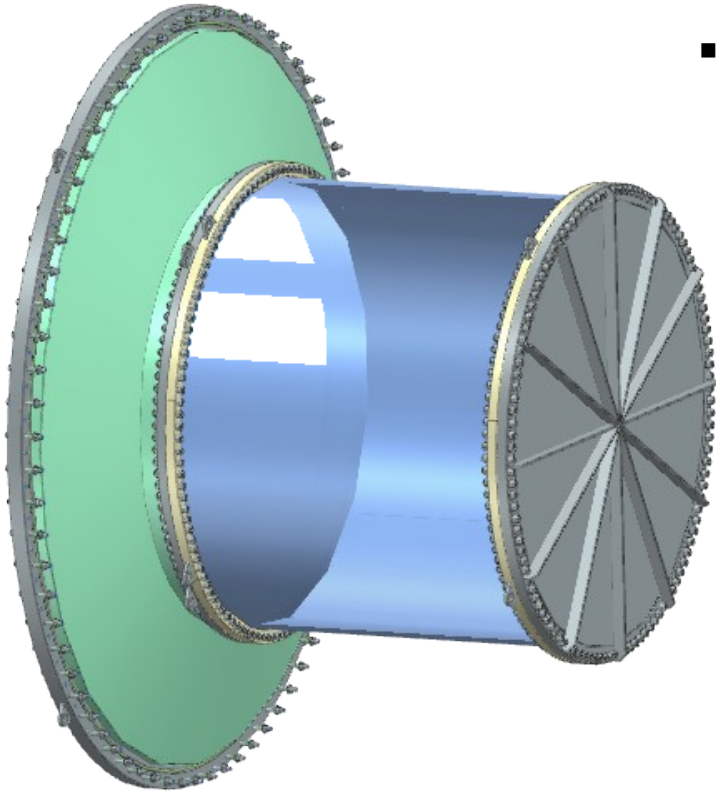


- Test assembly, test installation for one structure + lead at the end of 2026?
- Mount + install shielding rings in the vacuum chamber during T1 2027?

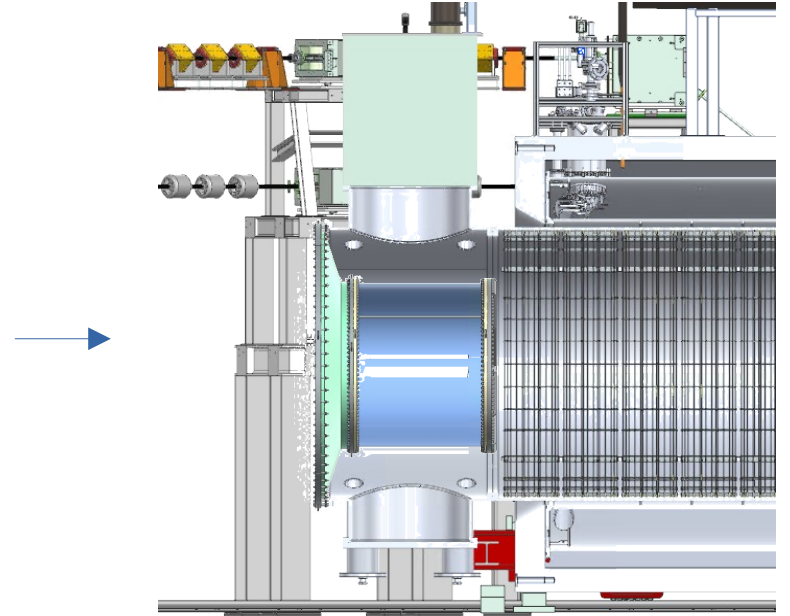
Chapeau – Planning test/installation

- Construction of the Chapeau by NTG, contract currently being signed
- Discuss asap and confirm with them : test schedule/installation

Special Plate to test the Chapeau under vacuum without the membrane (CFC/aluminum membrane manufactured by a specialist composite company)

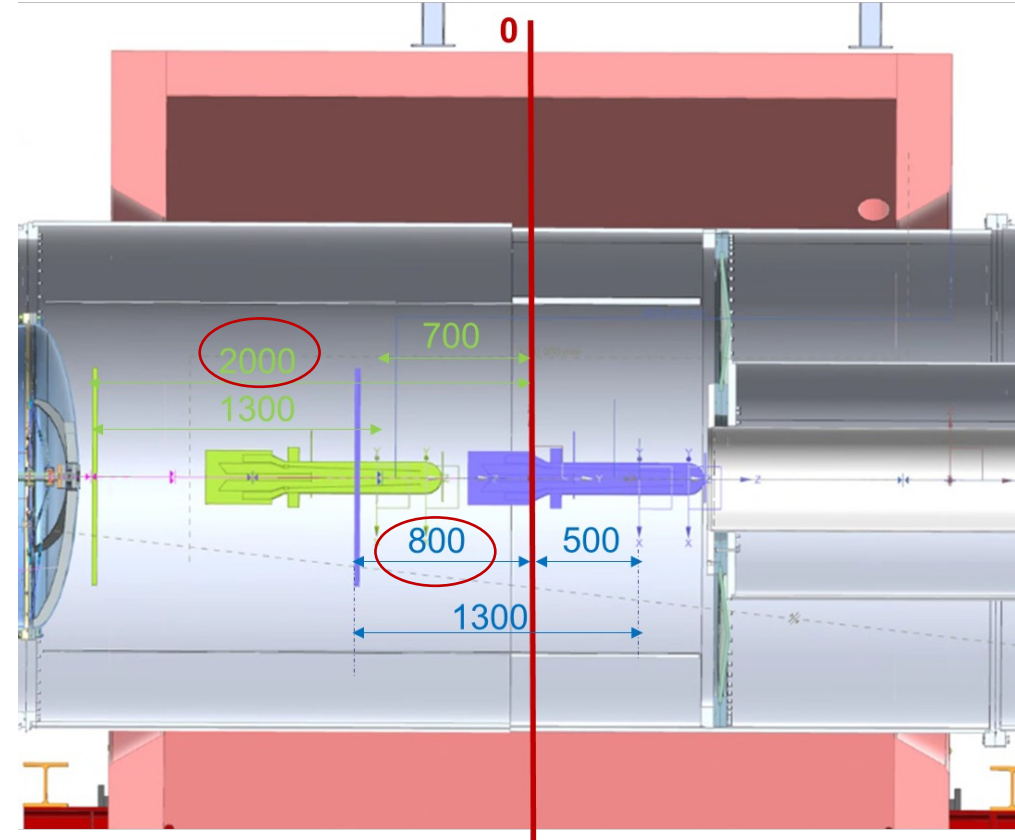
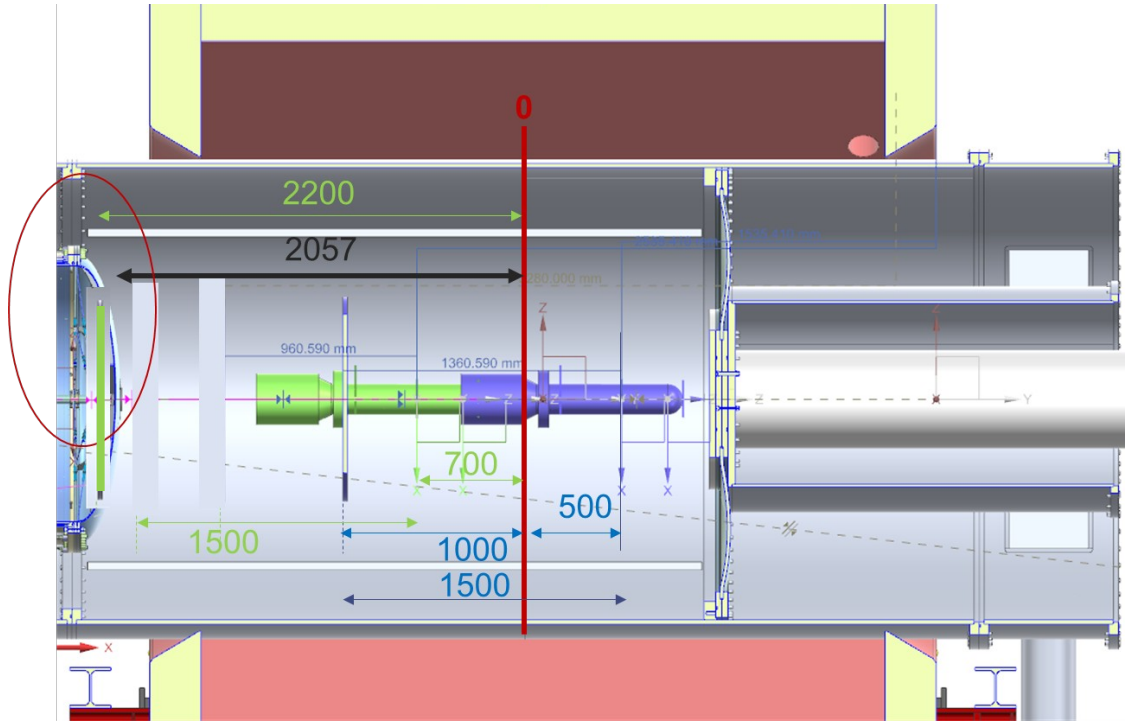


P2 MicroMegas-SC



Target positions (discussed before)

0 : Center of magnet



Initial issue : mismatch between z-axis origins in Saclay and Mainz CAD models

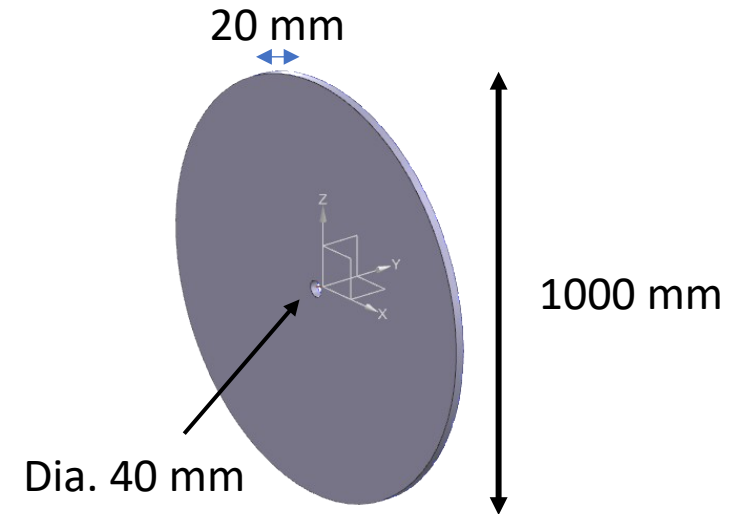
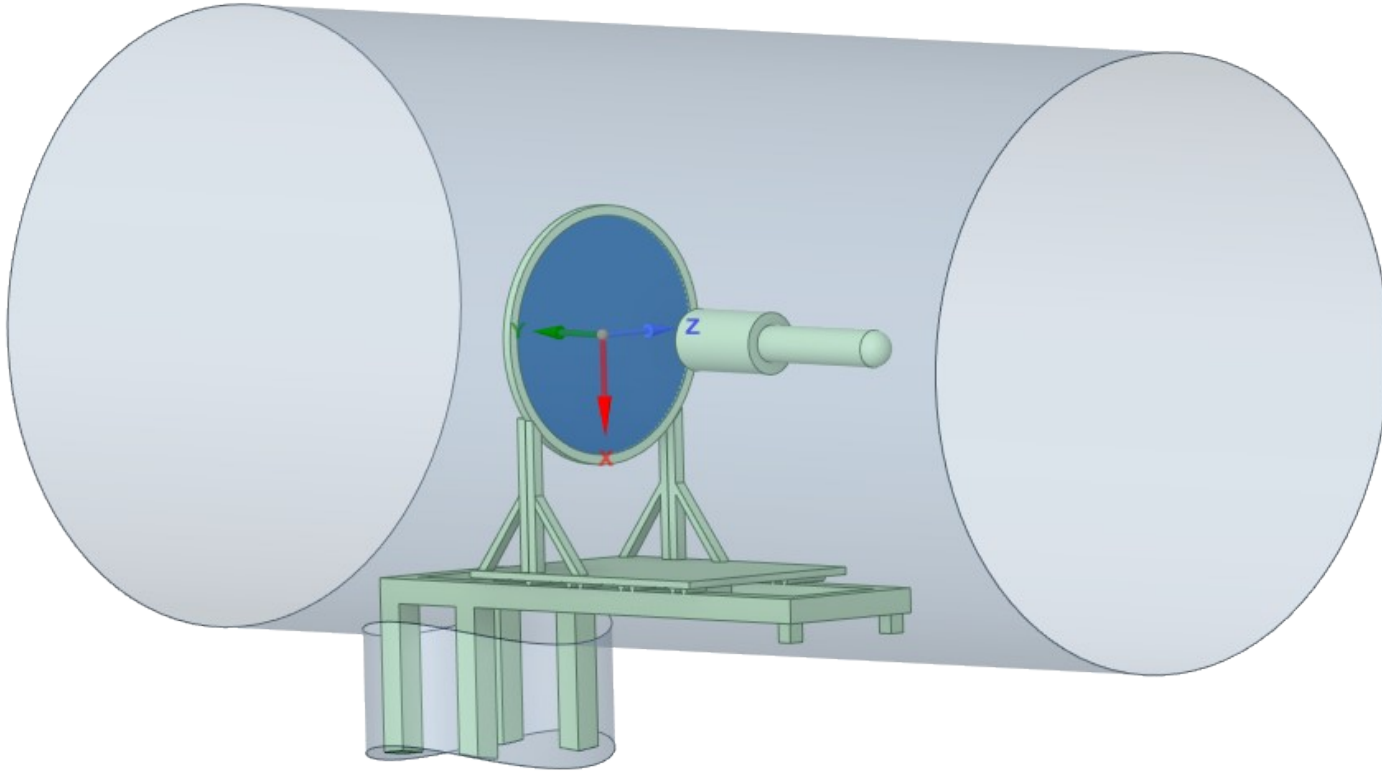
- clash between Mask and Chapeau when target at $z = -700$ mm

- possible solutions :

- Move target mask downstream by 200 mm (closer to target on support table)

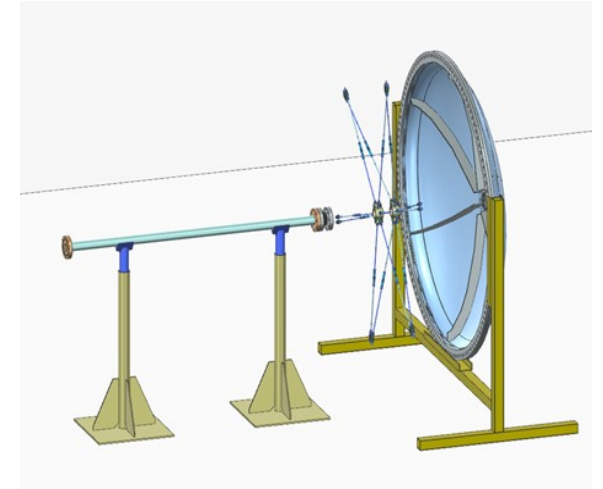
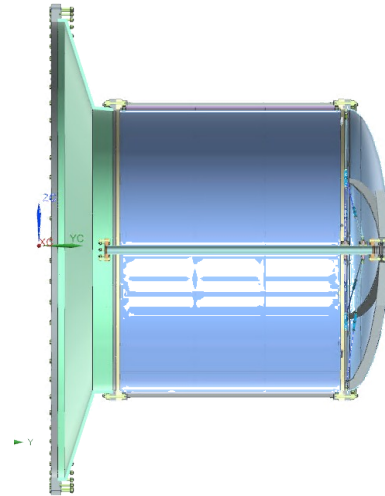
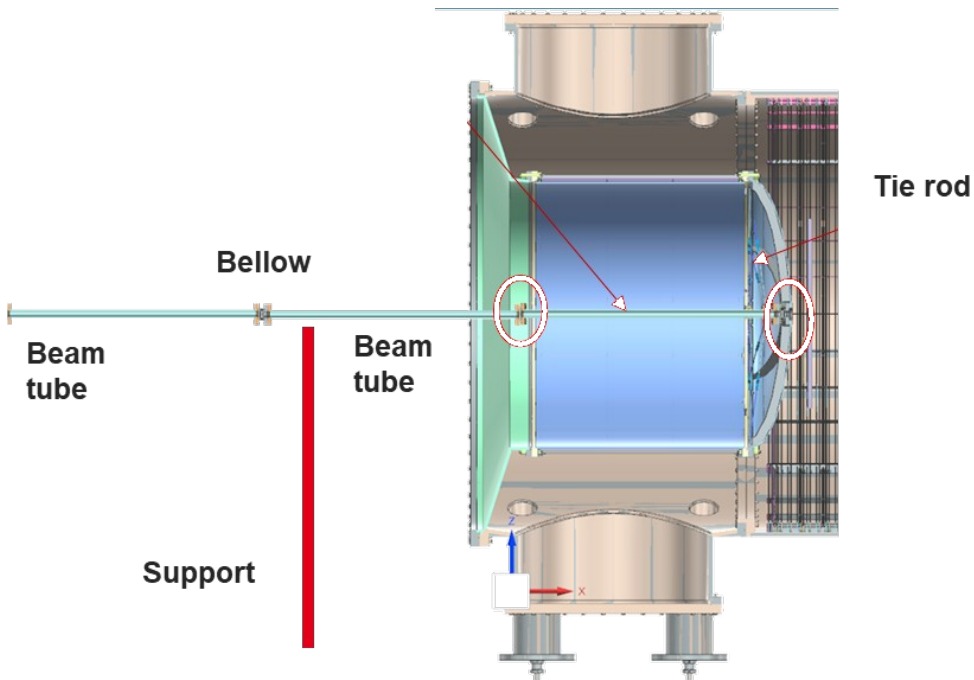
- Shorten Chapeau by 200 mm

Status Target Mask



- We will confirm the dimensions / weight of the target shield
- Status of design, schedule? → dedicated chat useful?

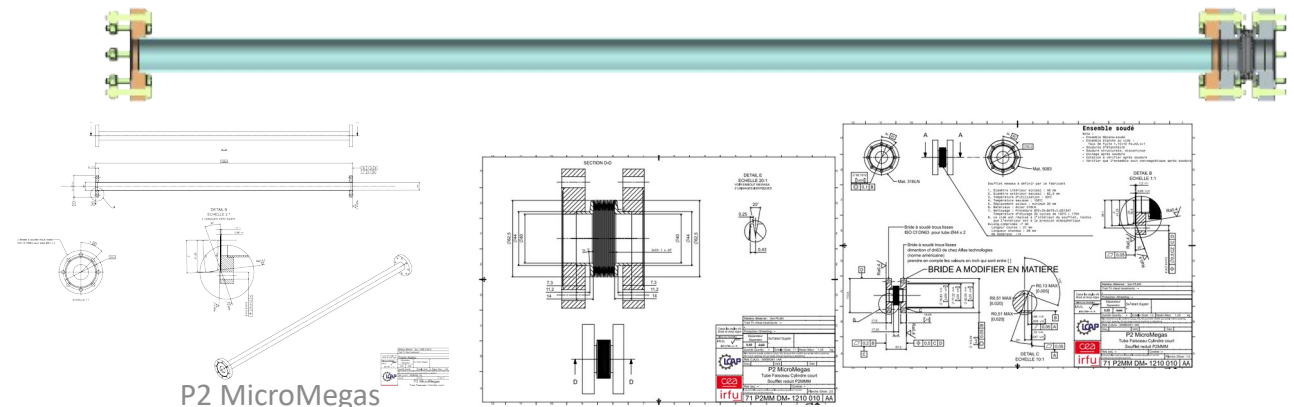
Beam tube extension



Beam Tube Design Status:

- awaiting the results of the CFC/aluminum and CFC/316LN bonding tests in order to finalize the definition of the membrane flange and, consequently, the flange bellows.

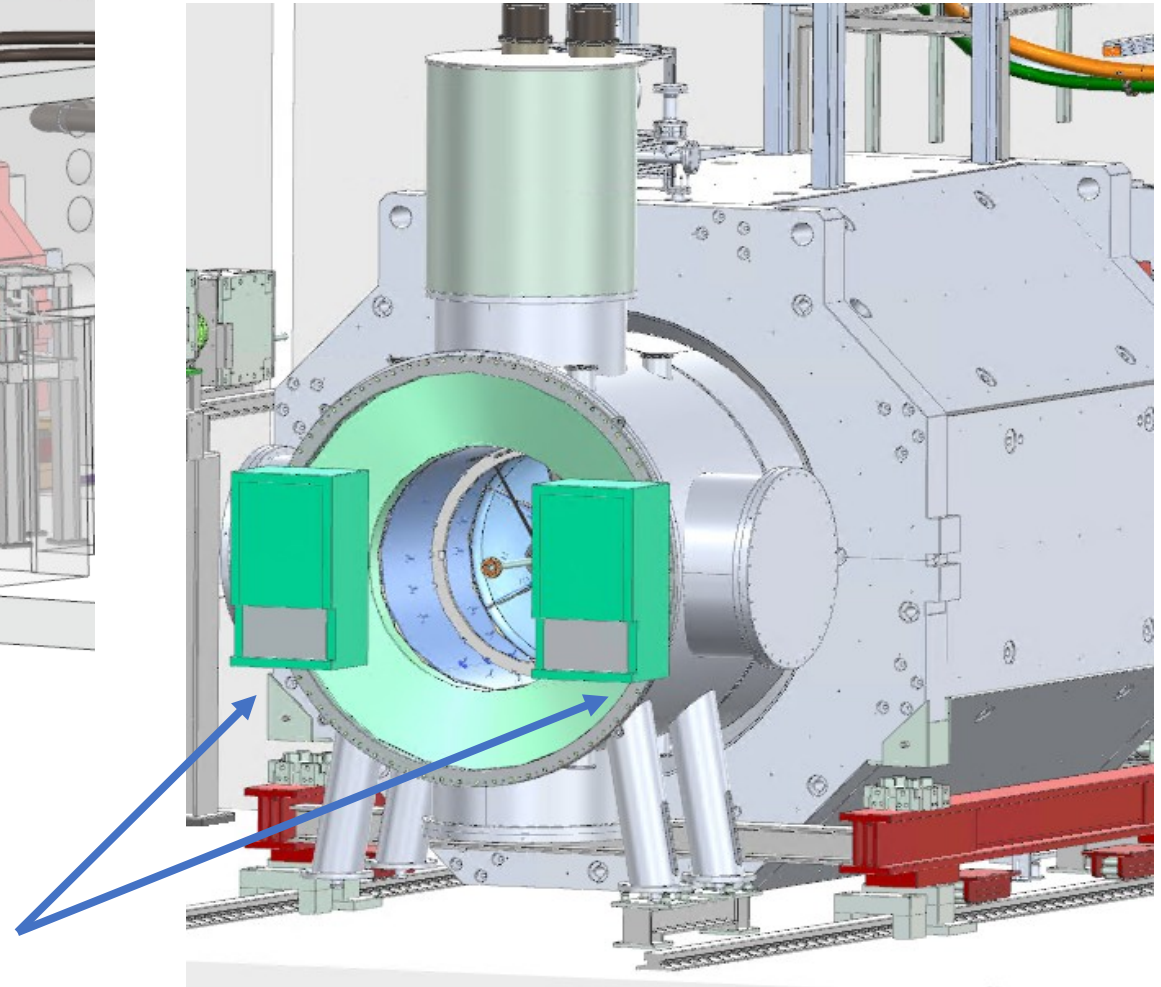
Drawings not final yet; will get back in touch when ready



Electronics racks support

Front end cables (under 20 m)

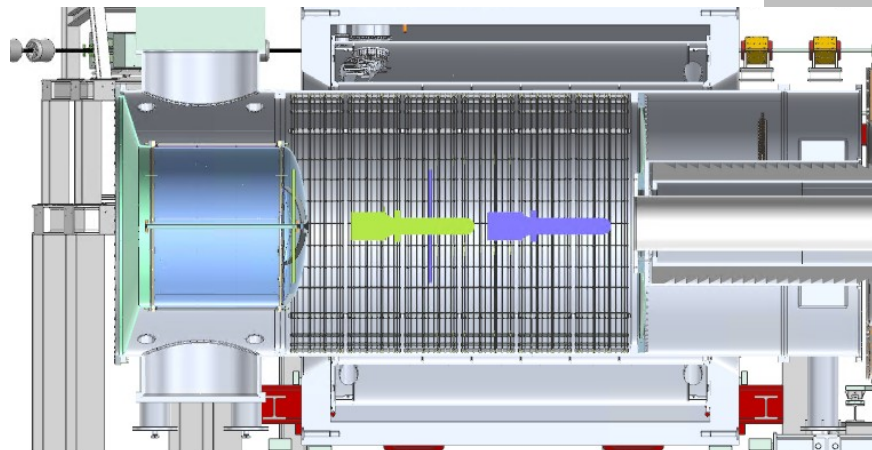
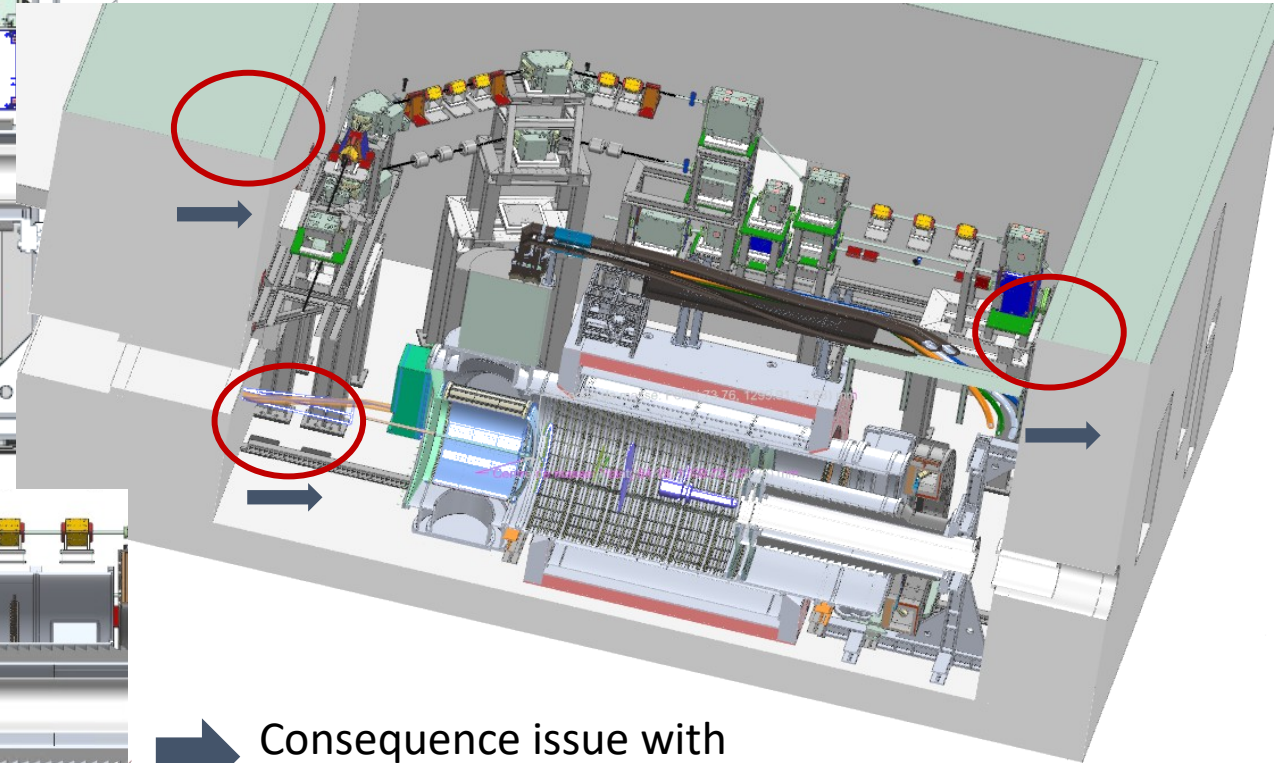
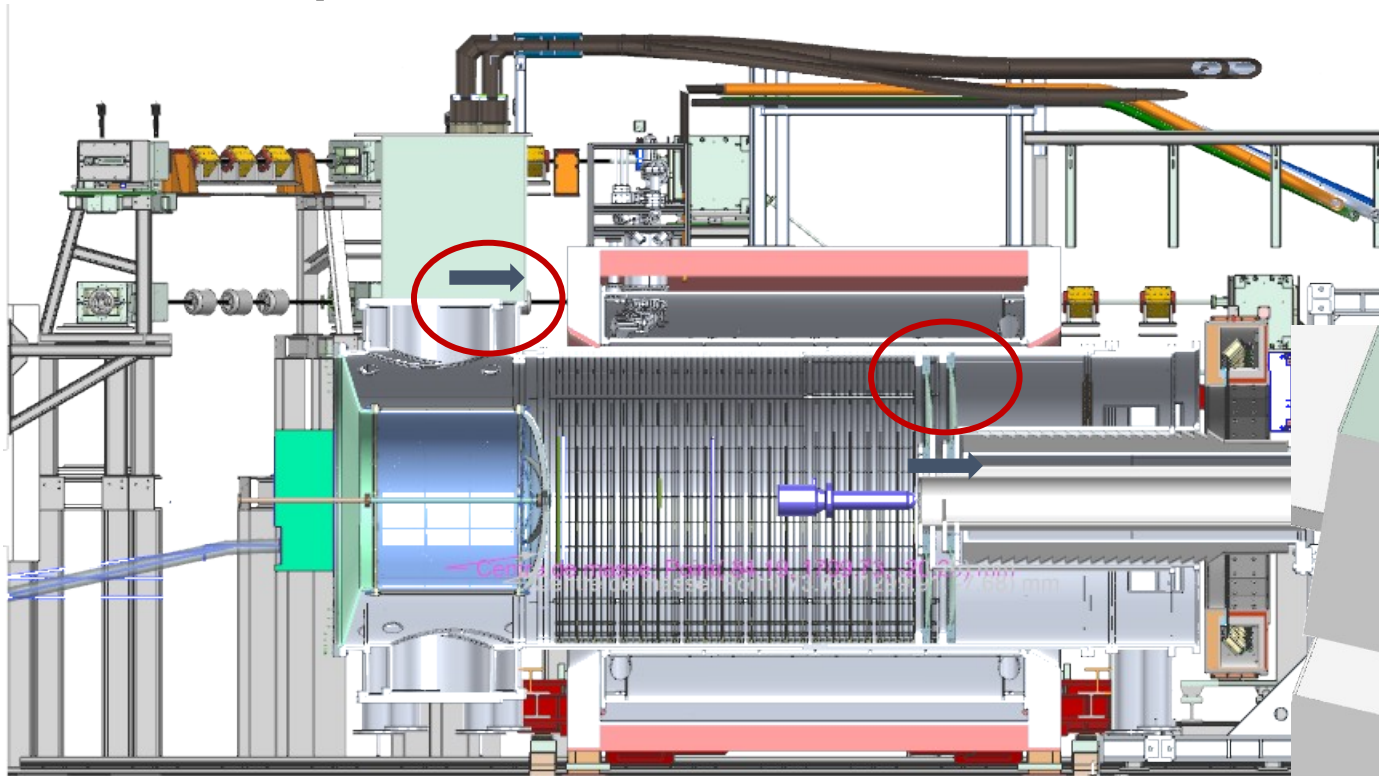
Platforms required to support the electronics racks behind the Chapeau
Any constraints?



Step MESA 07-07-2026

Offset :

- Chamber/magnet,
- Wall, magnet, magnet structure...



➔ Consequence issue with the position of the target, target mask...

Planning (mechanics)

		Sep. 26	Oct. 26	Nov. 26	Dec. 26	Jan. 27	Feb. 27	Mar. 27	Apr. 27	May. 27	Jun. 27	Jul. 27	Aug. 27	Sep. 27	Oct. 27	Nov. 27	Dec. 27
		Development, Validation				Procurement and production Blindages -> Vacuum chamber in Mainz			Integration @ Saclay		Installation of Chapeux at Mainz Comissioning of Basket @ Saclay			Installation in Mainz, comissioning, first beam			
MECANIQUE	Chapeau (DIS)	Ajustement dimensions Offre NTG acceptée	Rédaction marché Signatures	Réunion de lancement	Approvisionnement	Construction					Test a vide (Hall P2)						
	BlIndage Chapeau (DIS, DEDIP)	Ajustement dimensions	Appro profilés, feuilles Pb, Flexibore														
	Membrane (DIS, DEDIP)	Tests éprouvettes Design test à vide?	Choix epaisseur Achat Aero-comp.	Achat cuve test à vide	Construction			Test a vide									
	BlIndages (DEDIP, DPhP)	Test assemblage Achat cuves nettoyage	Nettoyage -- assemblage														
	Mask (DIS)	Dimensions -> NTG	Revue design	Achat													
	Racks front-end (DEDIP)	Design shierlding LV patch panel HDMI patch panel	Achats	Design plateforme (mobile ou statique?)													
	Tube a vide (DIS, Mainz)	Araignée (DIS) Extension tube (Mainz)															

Sorry you can not read this :)

Main messages :

- best effort for what concerns us : we try to stick to this (the next trimester is critical)
- many things pivot around the time when NTG can install the Chapeau in Mainz : to be clarified asap
- when done, we fill in our parts in the P2 planning spreadsheet (link?)

Discussion

- Basket installation planning till end 2027
 - proposal to install the absorber rings in the vacuum chamber during T1 2027; timeslot to be discussed
 - discuss asap with NTG who builds the Chapeau, and confirm with them their construction/installation/test schedule (which will affect other activity in the hall, and for us determine the installation schedule of Basket)
- Target and support table
 - we will confirm the dimensions / weight of the target shield
 - status of design, schedule?
- CAD model of the hall : Sandrine found a mismatch in the latest model, to be clarified
 - in touch with Paul
- Beam tube extension, next steps
- Platforms to support the electronics racks behind the Chapeau : any constraints?