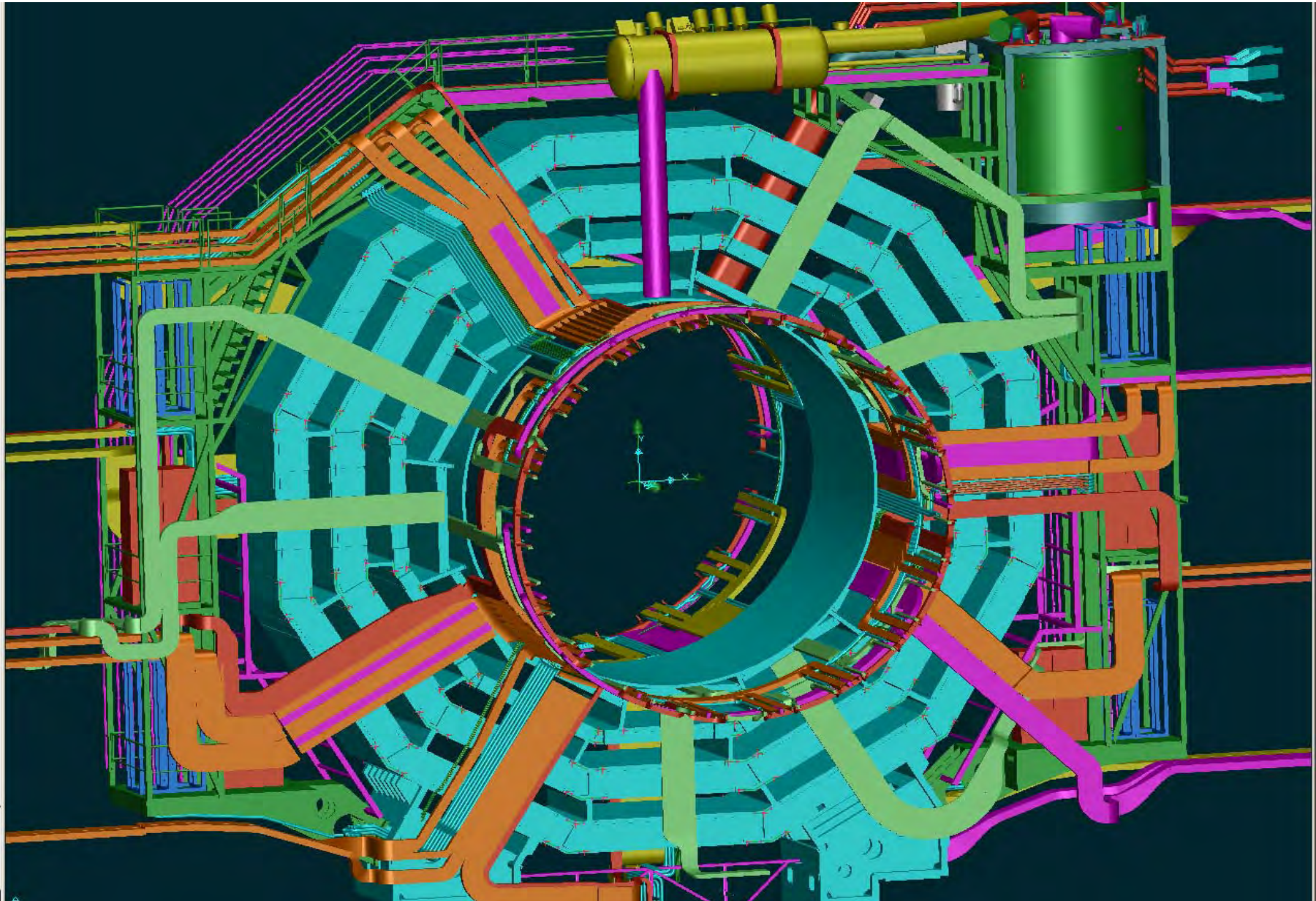


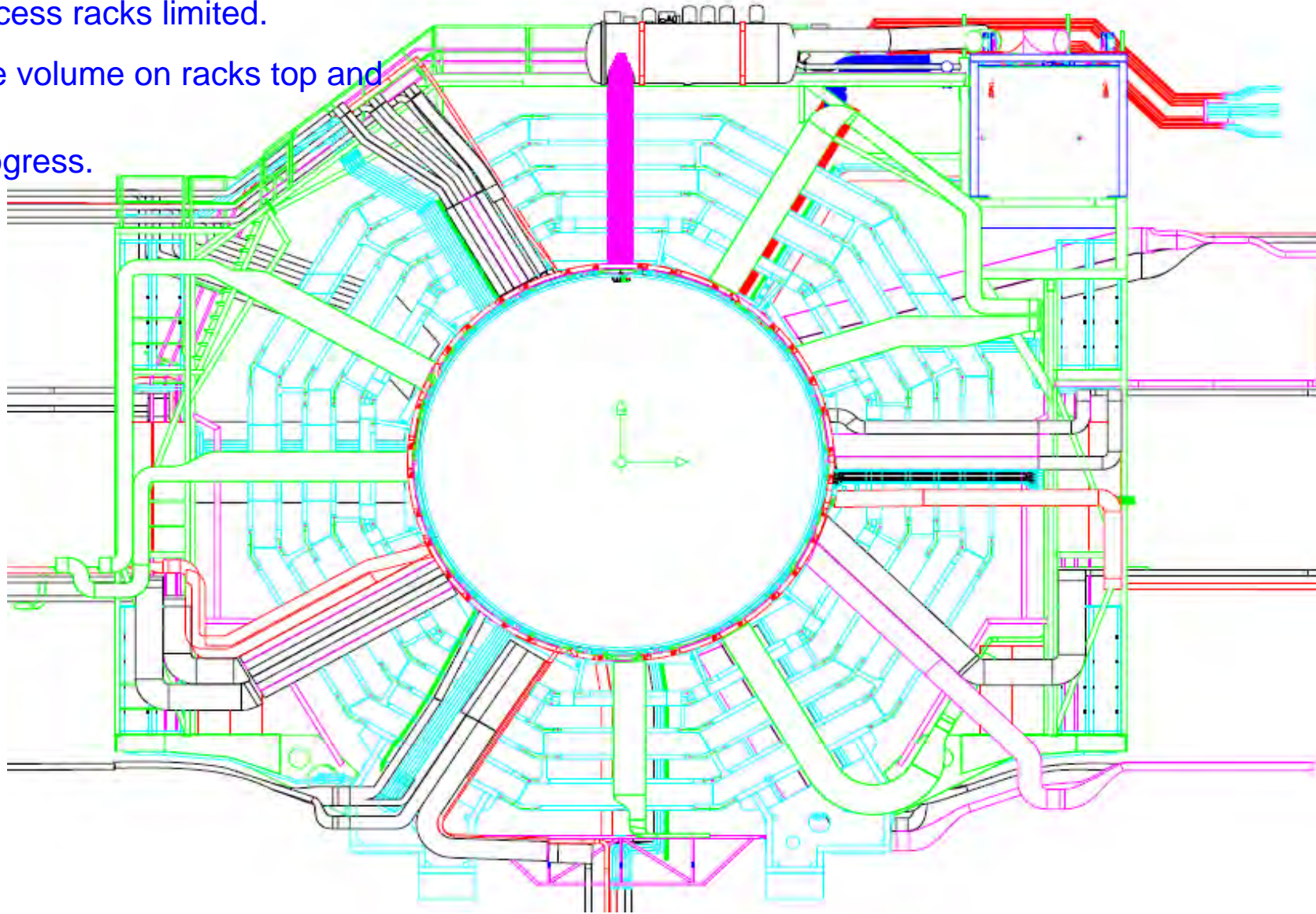
Installed on all the mobile wheels.



Cables routing to access racks limited.

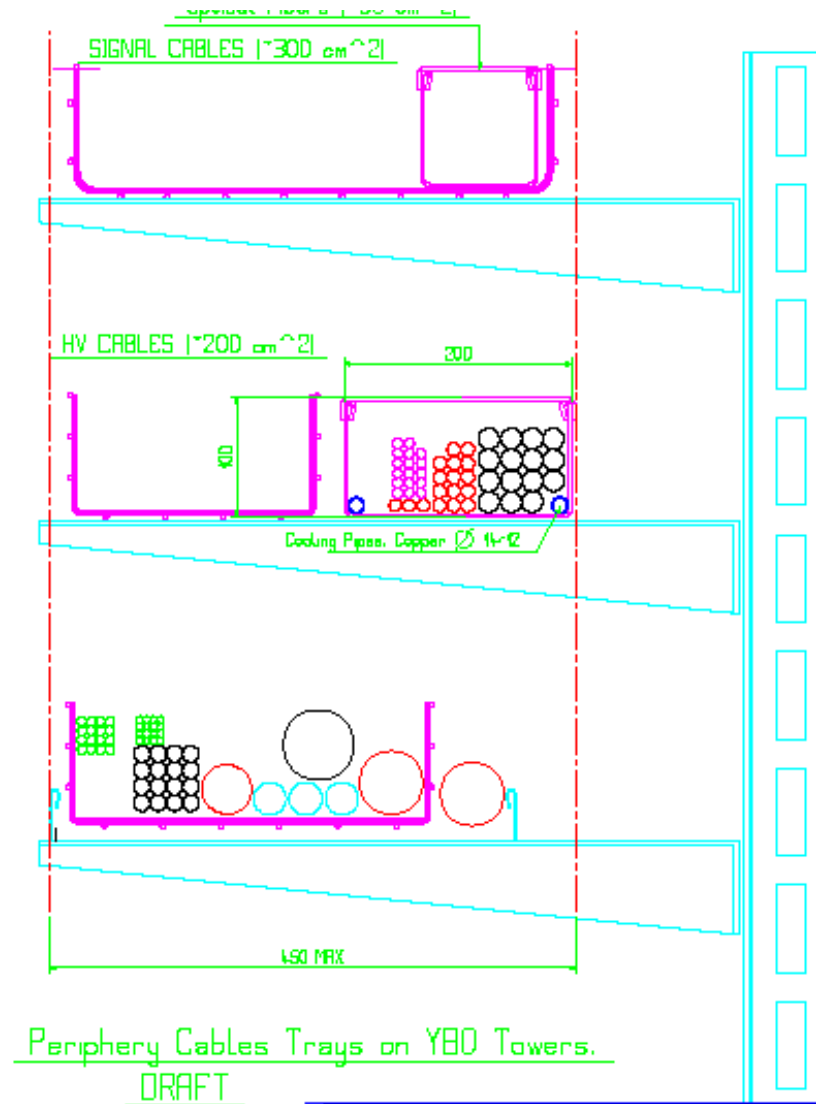
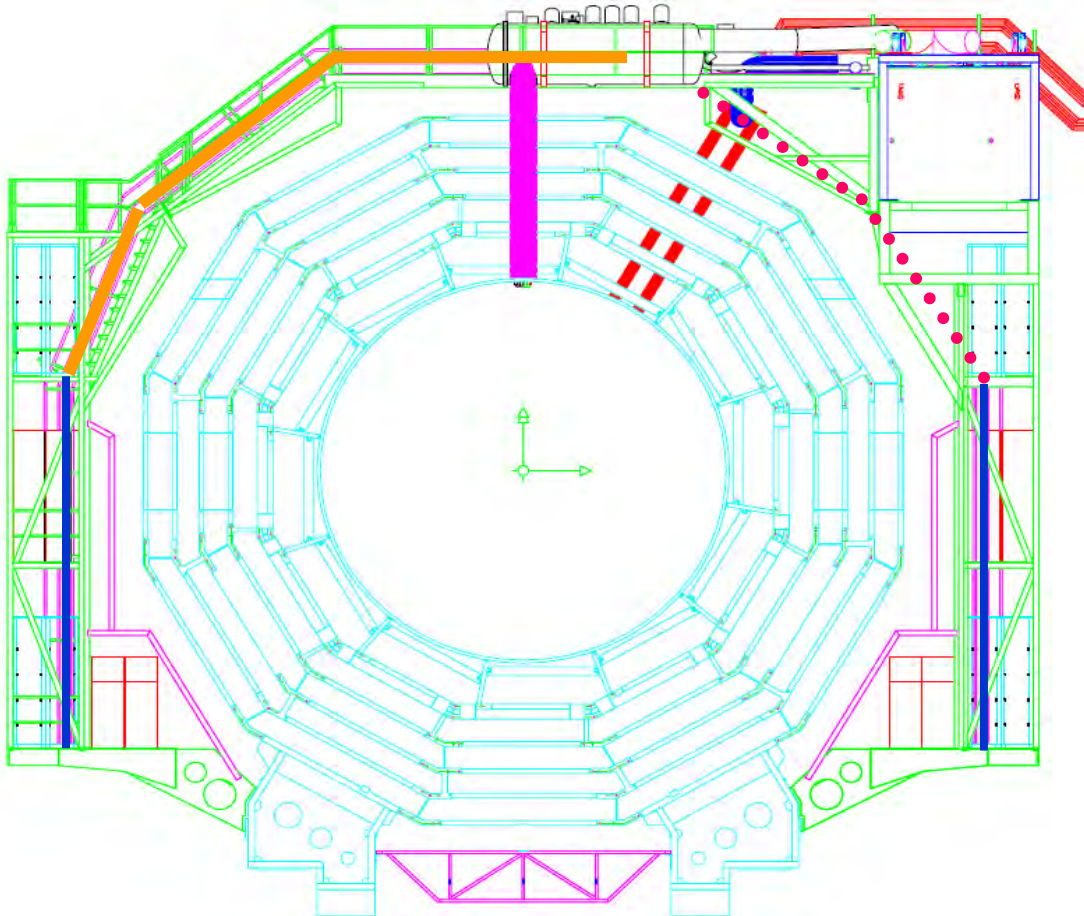
No extralenght store volume on racks top and bottom .

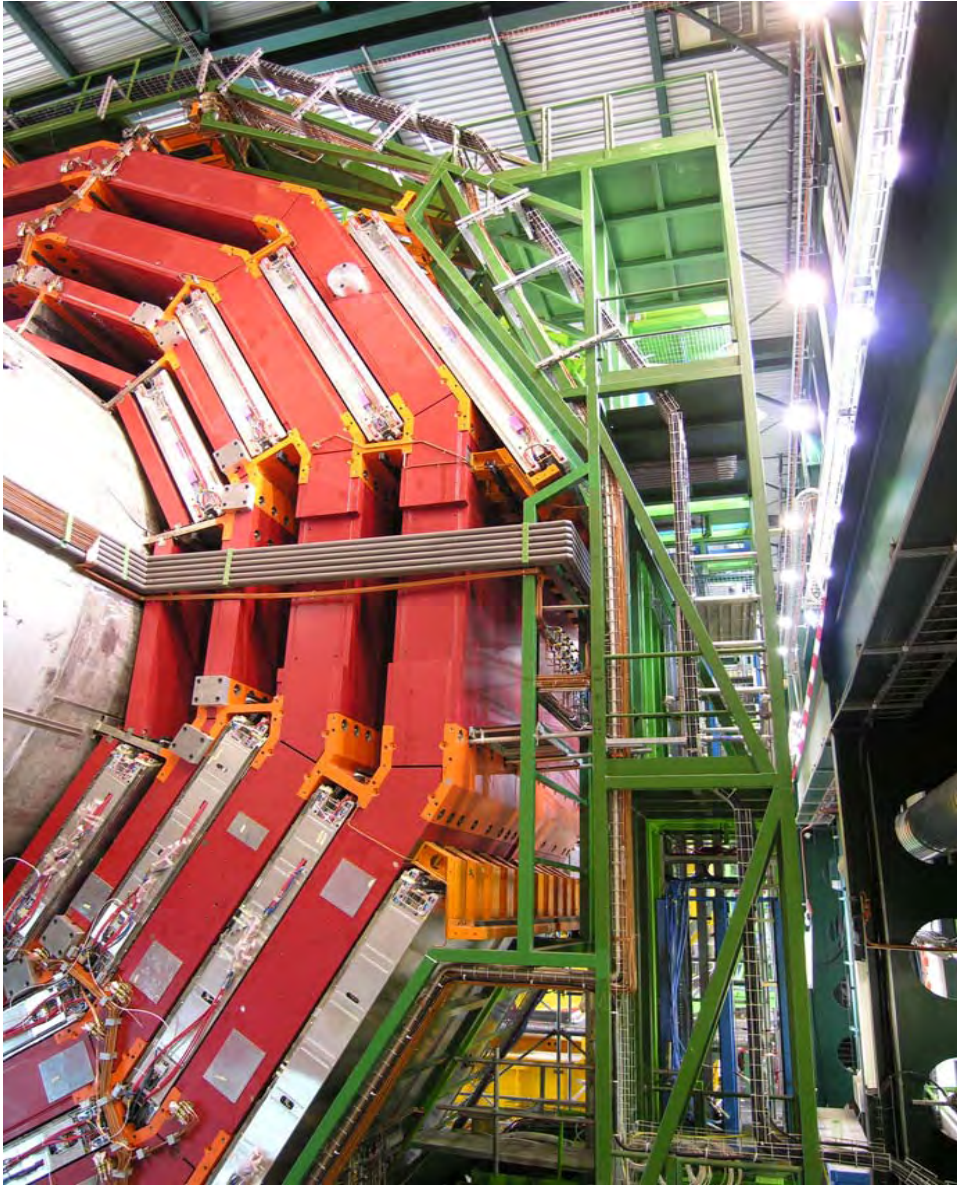
Cable length in progress.



DT RPC Services on YB 0 on both side. Cable tray only on neg side. Dimension on the towers straight section to be reduced, from 520 to 400-420. Region around Cryo need further studies.

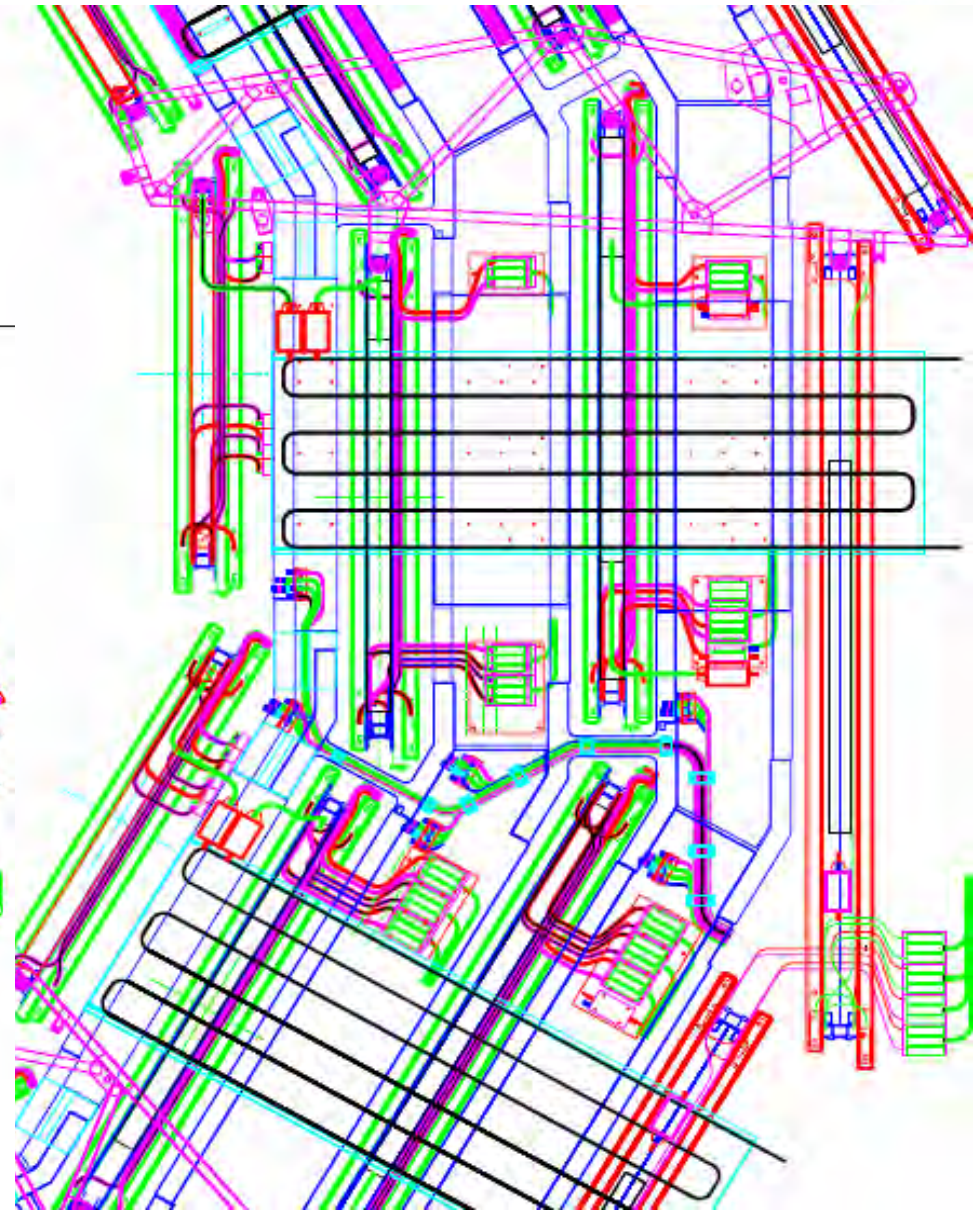
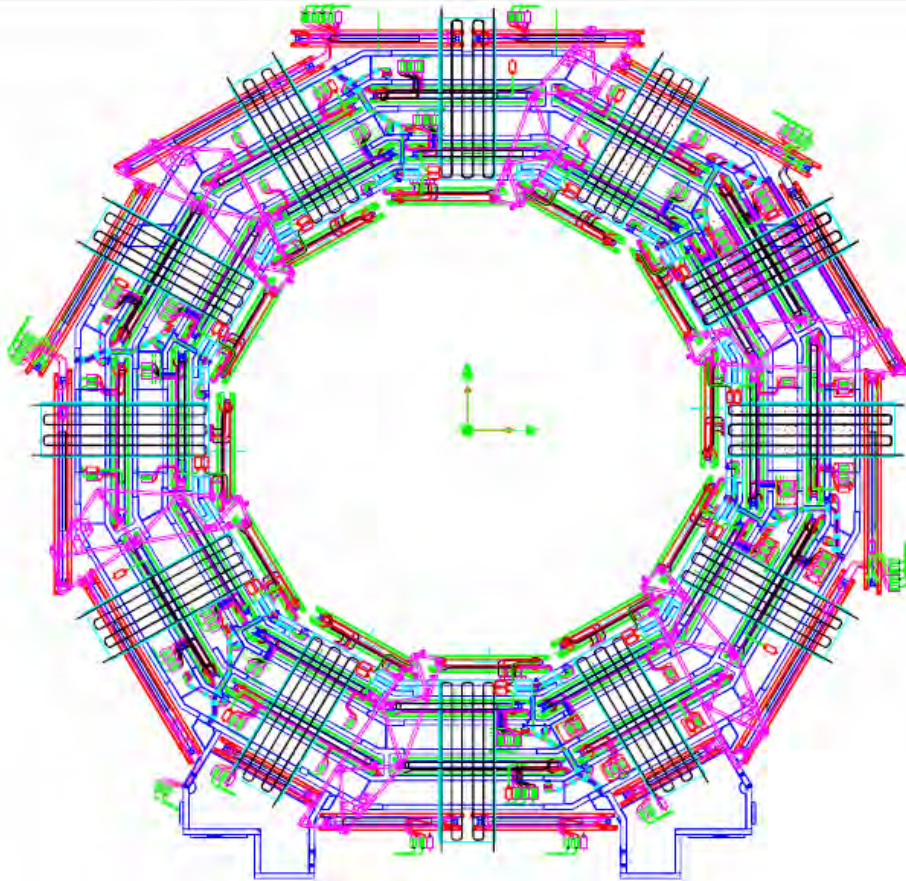
Basic material list must be ready by end June.

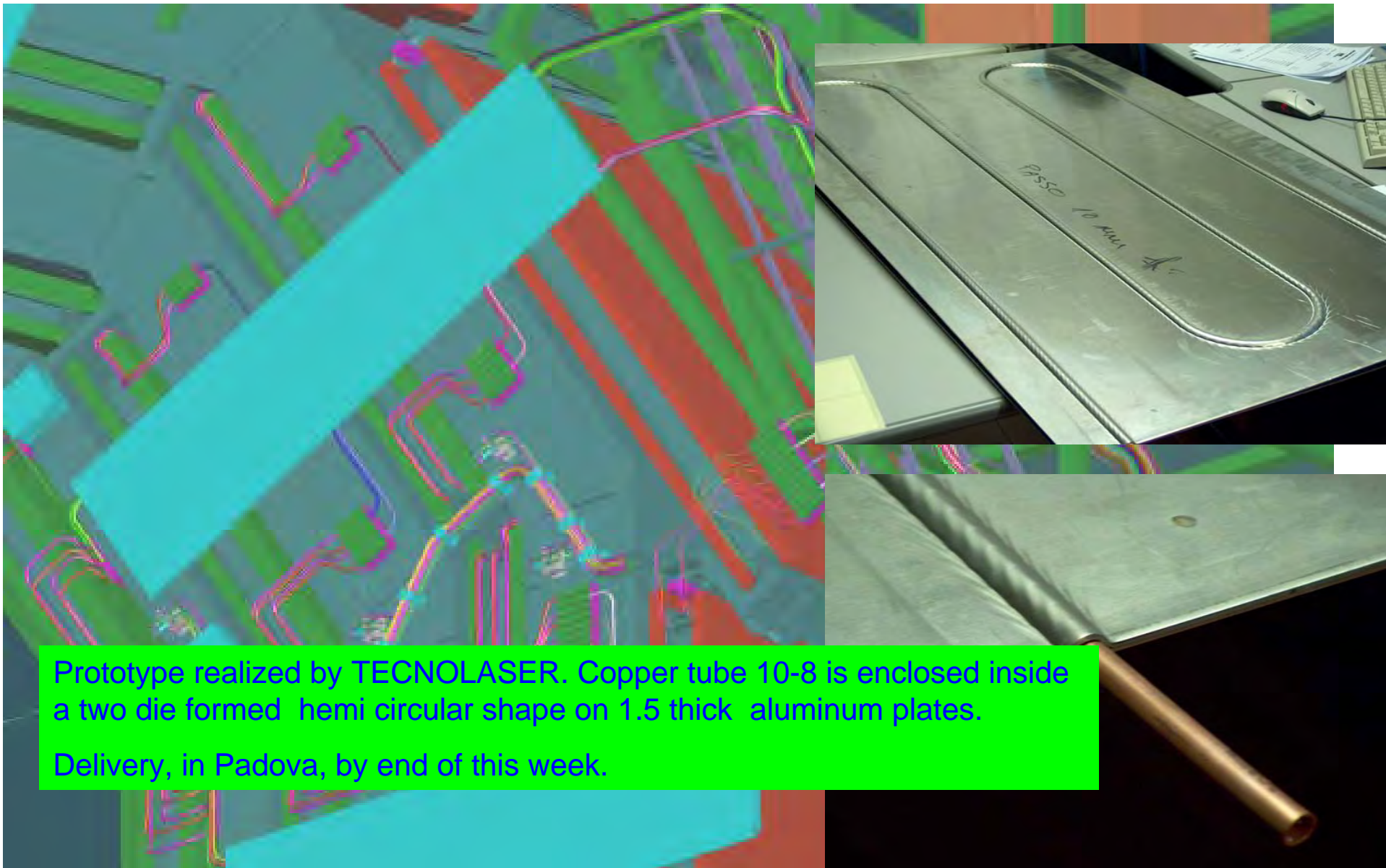




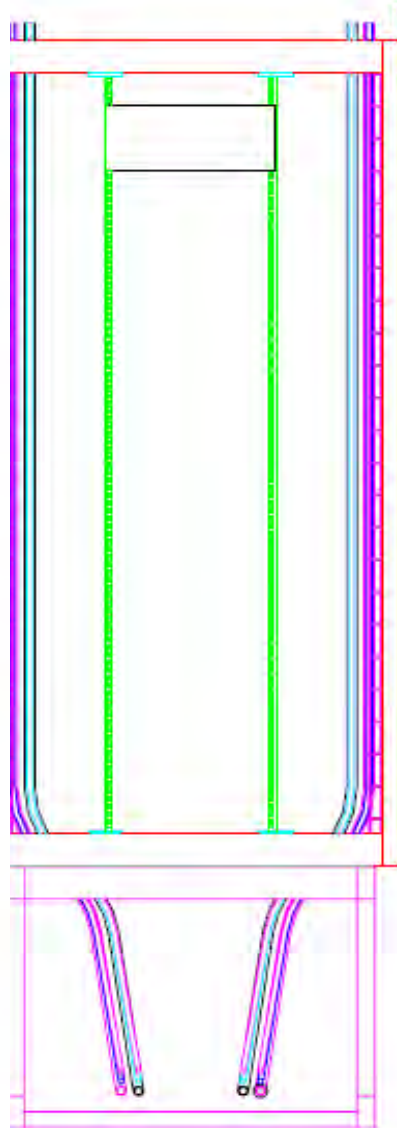
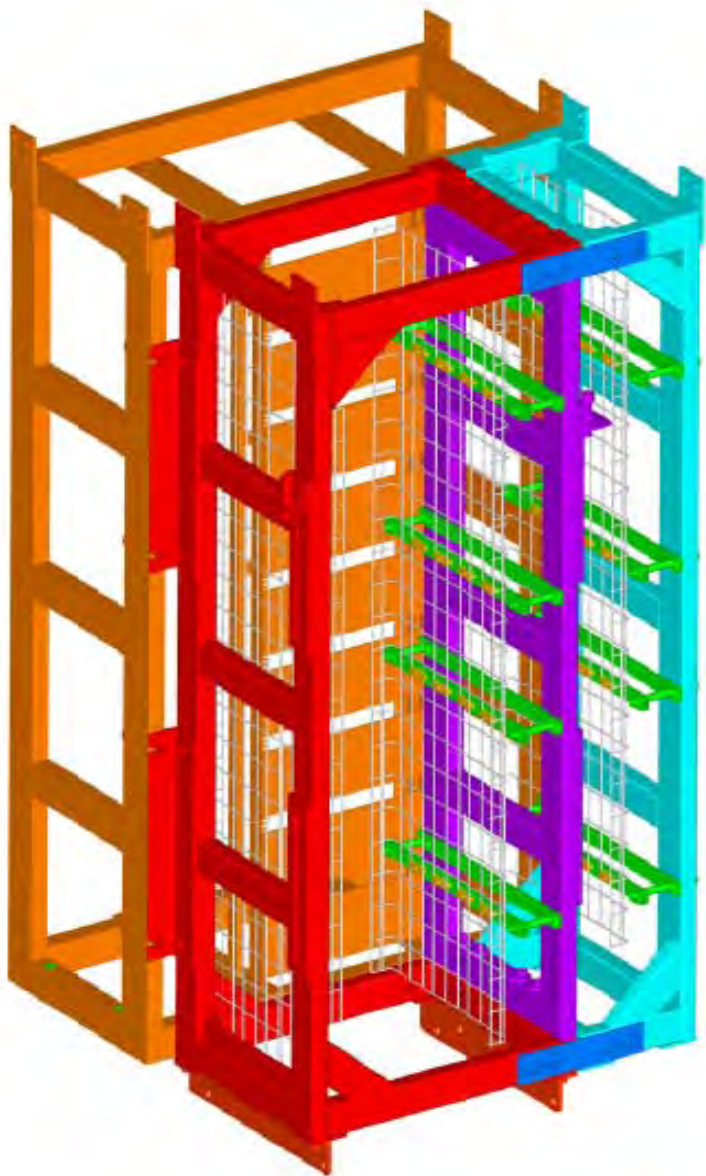
Temporary cable tray installed for Magnet services. Should be removed before installation of permanent cable tray.
Installation foreseen immediately after MTCC.

- Interface Panels installed on all the wheels.
- Thermal screen for mobile wheels in production.
- Thermal screen on YB 0 Integration with ECAL LV Removable service in work.





Prototype realized by TECNOLASER. Copper tube 10-8 is enclosed inside a two die formed hemi circular shape on 1.5 thick aluminum plates.
 Delivery, in Padova, by end of this week.



NB cables aren't updated here

Foot Patch Panel YB+2 - near side (x>0)

Patch Panel name	Type of cables	Height [mm]	width for connectors [mm]	From outside cables (mm)	To cable-chips (mm)	To cable-chips (mm)
Free to cross	HV LV sign fiber	200	max			
RB fibres	200x200mm depth	45	max			
		55	450	37	10	2
HO	sign fibres (BOX 7 depth)	200	450	25	13	35
		50	max			
Align	LV, sign, fibres	50	450	0	5	0
		50	max			
RB LV	LV, sign	100	300	5	30	30
		50	max			
MB LV	LV, sign	100	300	2	40	40
		50	max			
MB HV system	LV, sign	200	450	7	22	7
		50	max	7	7	7
AC power in	220VAC, sign ?	100	300	4	21	21
		50	max			
Services	220VAC, sign	200	450	20	73	20
		50	max			
RB.HV	HV	300	450	50	35	6
		50	max			
pipes	-	150	max			

Tot. 2100 [mm] 183 256 104 276

Responsible person	Remarks
K. Doroba	Fibres cross from vert. cable, cable length
P. DeBarbaro	CABLES & FIBRES: 200x200mm depth (H=200mm) 24x140 OFE + 6x140 CA + 6x140 LA The width over 400mm up to 700mm will be used for bending radius and extra length of HV cables and for the 200x200mm depth (H=200mm)
E. C. Alamito	
A. Ranieri D. Piccolo	Assuming to 45V service cable LV cable, to HV LV sign cable + to LV LV sign cable per cover, the over-dimensioned waiting for the design.
C. Willmott M. Paganaro	Assuming to 45V service cable LV cable + to LV LV sign cable per cover, the over-dimensioned waiting for the design.
E. Borsato L. Modenese	Diameter of connectors about 50mm
S. Alhtar	There are 19 LV cables per cover, the total cable is 19x140x140mm connectors. Assuming 21 cables 21x140x140mm per LV rack.
A. Gadi / ESS	A cable rack x 5 rack/cover 30 cables, TOTAL = 75 and REQUESTED: max. is 120/100 ASSIGNED: 200 x 450 (to be agreed)
A. Ranieri D. Piccolo	A size 300mm high was requested but 200 mm should be sufficient to satisfy the worst case. To be verified and agreed with RSC group.
D. Dattola	

NOTE FOR THE USER:

- * RED numbers are very guessed because I'm waiting specification from responsible person
- * BLUE numbers are still under discussion
- * It's responsibility of each User to cross-check this proposal.
- * Compacting the width of your patch panels will permit a better storing of extra lengths of your cables !
- * The position of the User's Patch Panels inside the structure could change, whether needed or requested!
- * Some Patch Panels will share the space for extra-lengths storage (see PP grouped by the the bracket {)

NB cables aren't updated here

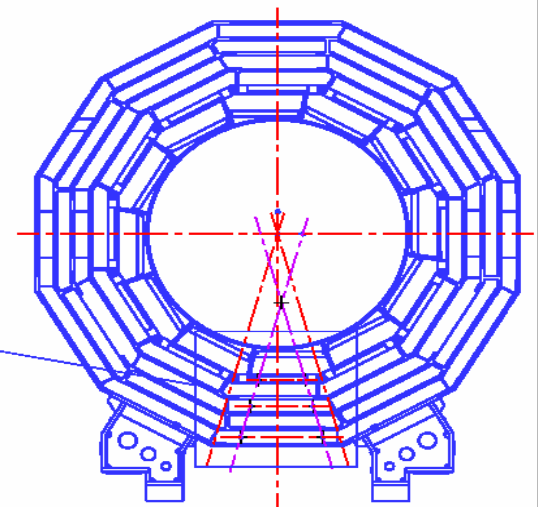
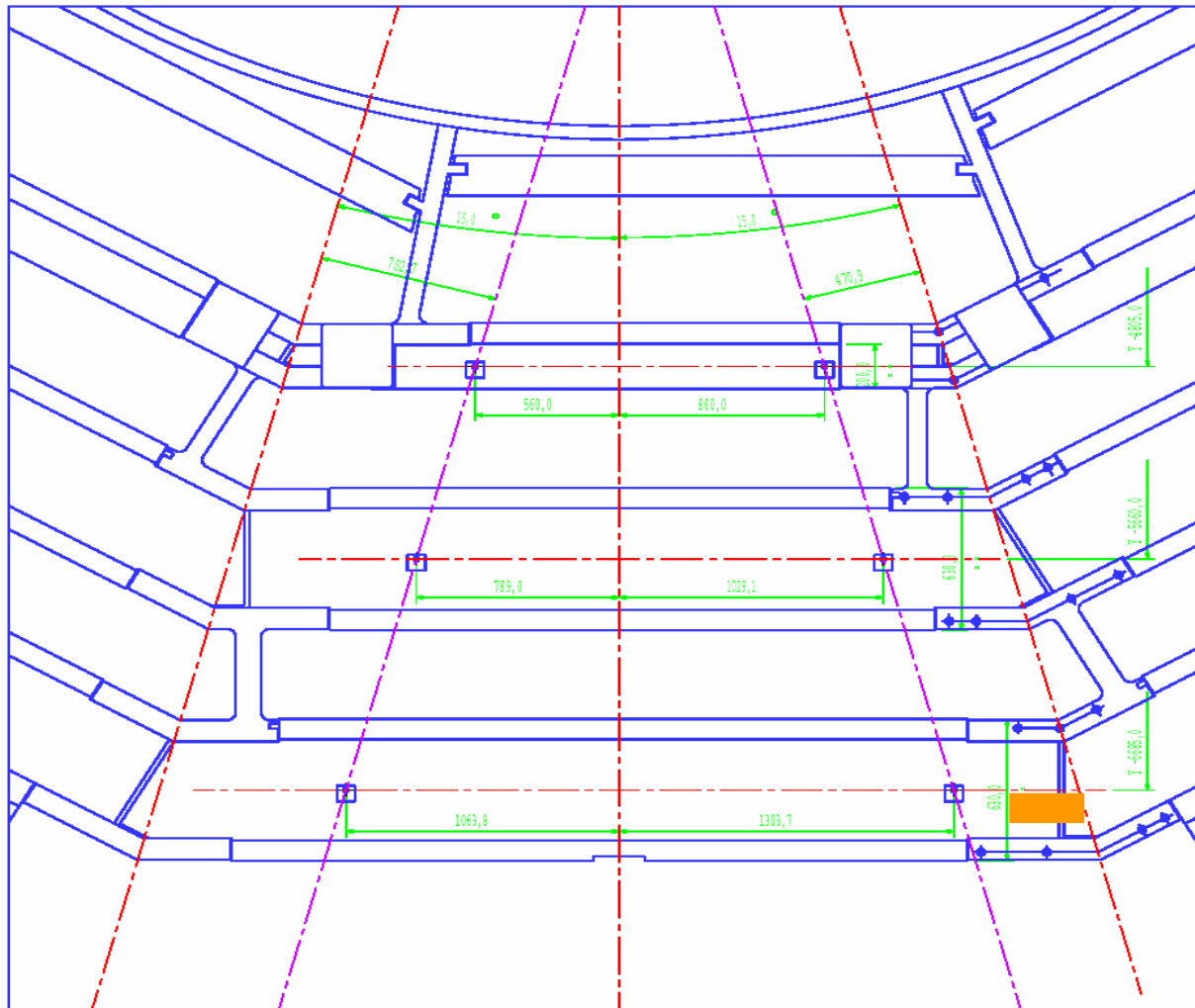
Fabio MONTECASSIANO INFN PD @ PH/CMM

25.04.2005

- Muon barrel DT/RPC and services integration
 - Design services fixation in the removable sectors
 - Design combined cooling panels for MB and removable services
 - Clear interferences between permanent installed services and the as build DTs
 - Sharing of services cable trays on the periphery of CMS
 - Lv cooled cable tray -
 - Validate rack orientation, rack cabling and crate removal in the towers
 - Cut out on towers for racks service
 - Adapt cable length to include the experience of YB 2 cabling (cable storage)
 - Cabling mechanics and storage at the racks on UX balcony and Patch panel
 - Support structure for cable trays between feet
 - DT and RPC Cables lenght
 - HO services integration with the Muon system
 - Routing of HO services, in particular the optical fibers underneath MAB

- **Mobile wheels**
 - Radial cable trays and ancillaries: defined for all the wheels
 - Thermal screen: Prototype in manufacturing.
 - Periphery cable trays: completed.
 - Cut out on towers: Completed on all the wheels
 - Racks Installation: completed on all the wheels.
 - Feet Patch Panels: Fixed Frames installed on YB +2.
- **YB 0**
 - Radial cable trays and ancillaries (tapered holes, HV-LV panels, flexrails): Done.
 - Thermal screen: Integration with removable services in work
 - Periphery cable trays: Integration in work
 - Cut out on towers and racks position and cooling: Done. Racks installed.

Layout on YB 0 +/-; YB -1 -side; YB-2 -side.



Yoke Barrel #0. Left side view.

Hall Probes position on sector # 10.

Vyacheslav KLYUKHIN, Domenico DAYTOLA.

PROPOSAL.

04 April 2003.

Dir.	U. D'Amico	Nota		
Data	04/04/2003	Disegnazione		

