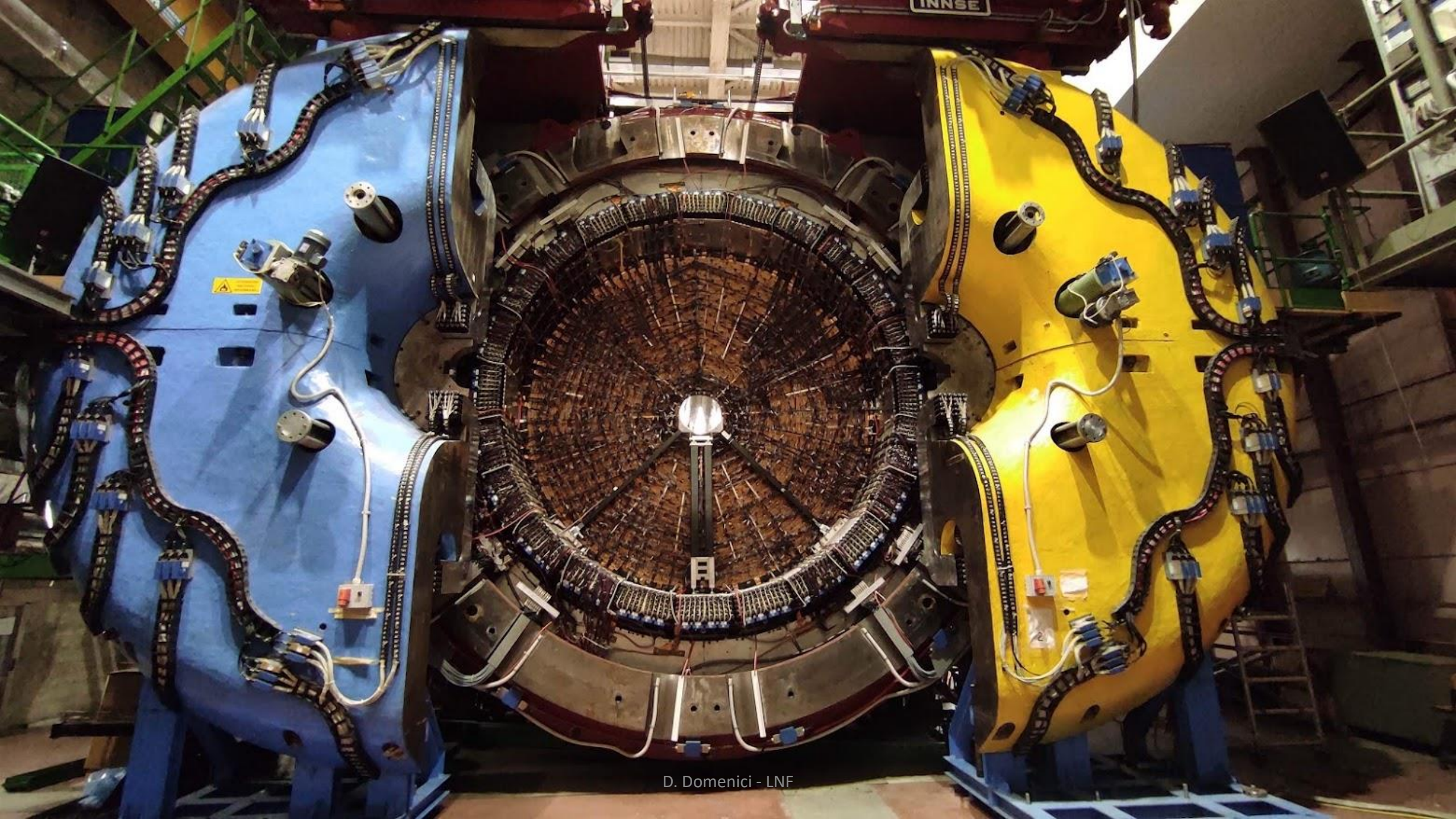
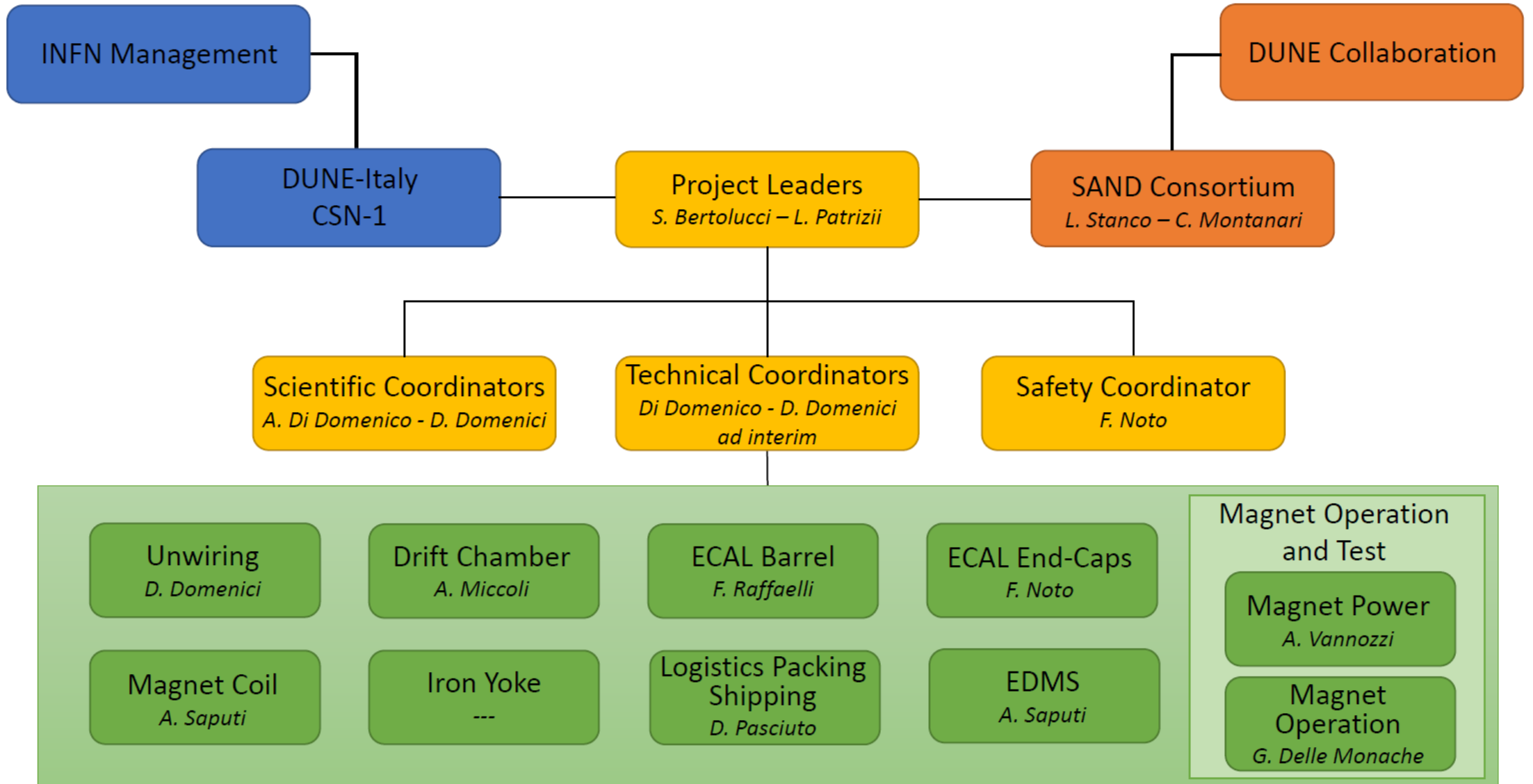






KLOE-to-SAND Project OBS



KLOE-to-SAND Operation Activities at LNF

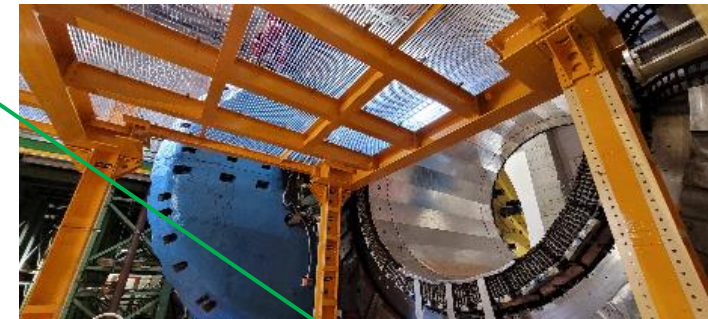
- ✓ Removal of all the cables and the FEE+HV racks
- ✓ Extraction of the Drift Chamber

CALORIMETER

- ✓ Laser Tracker survey
- ✓ Extraction of Barrel (24 modules)
 - ✓ Variable height platform design and construction
 - ✓ Insertion/extraction machine refurbishment
 - ✓ Dismounting of PMTs
- Dismounting of 4 End-Caps
 - Tools refurbishment and construction
- Modules consolidation
- Operational test

MAGNET AND YOKE

- Installation of new Power Supply
- Colling and operational test
- Extraction of the Cryostat
- Dismounting of the Iron Yoke
- Packaging and Shipping

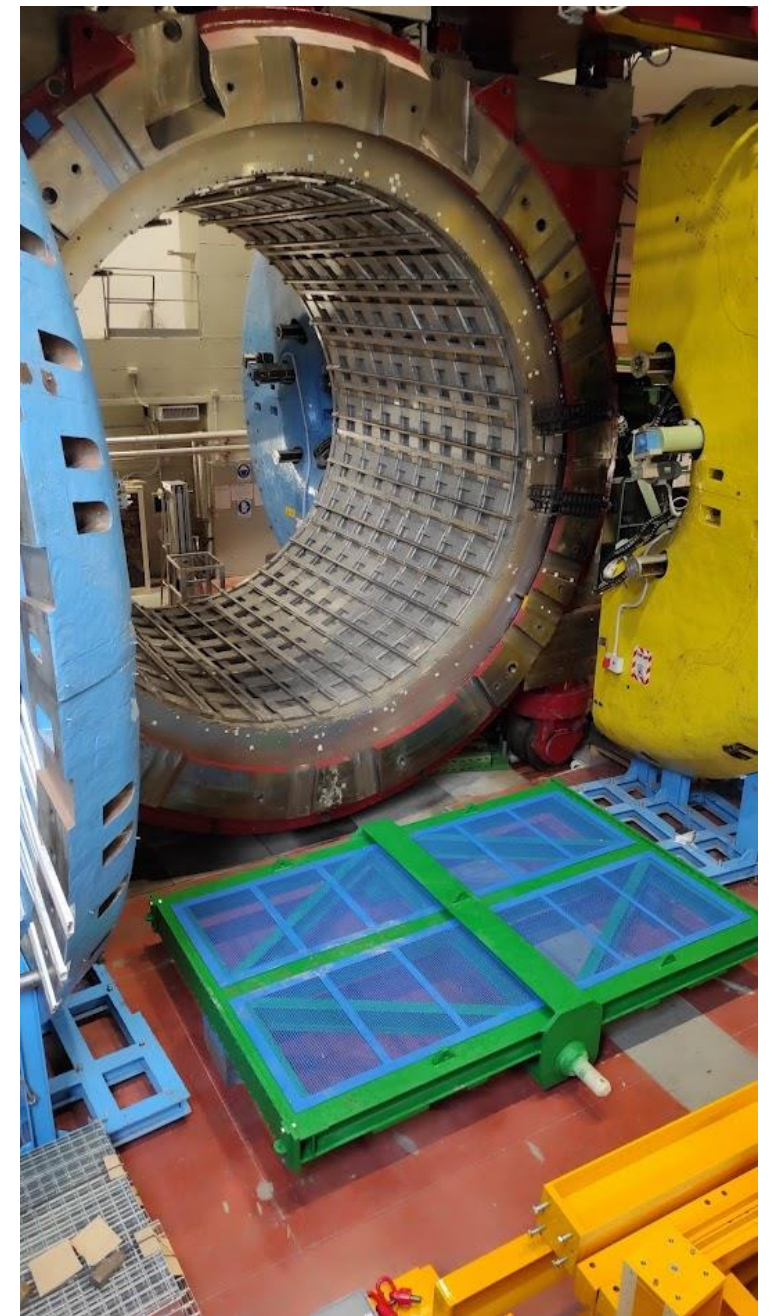
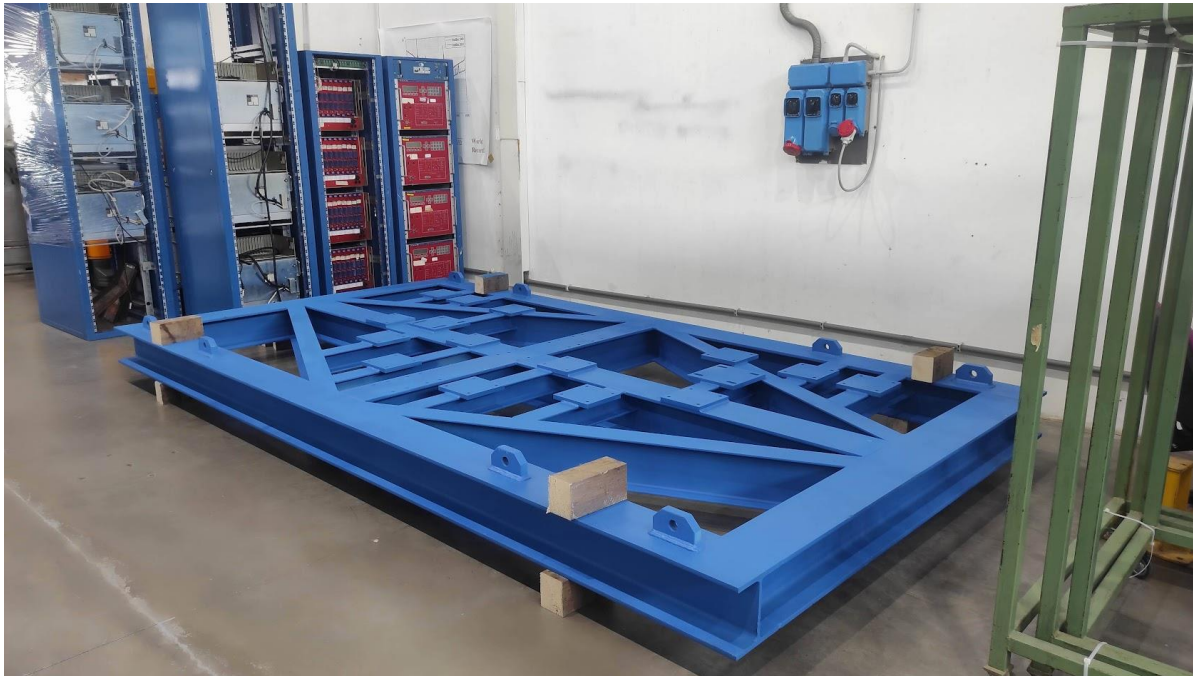




End-Caps Dismounting

Tooling main parts ready
Ancillary parts still under construction
No further money requests needed

Expected in Autumn 2024



Modules Refurbishment and Test

Operation on dismantled modules:

- check light-tightness
- repair possible damages
- replace adhesive tape
- test basic performance

(possibly using new HV/LV/FEE)

2025 requests for tape and glue



new
100 m²
DUNE
area



Magnet Power Supply

New Power Supply

OCEM 3000 A / -7V (-2V) / 0 ÷ +6V
Based on 3 x TDK-Lambda Genesys+



Power Electronics Revamping Study

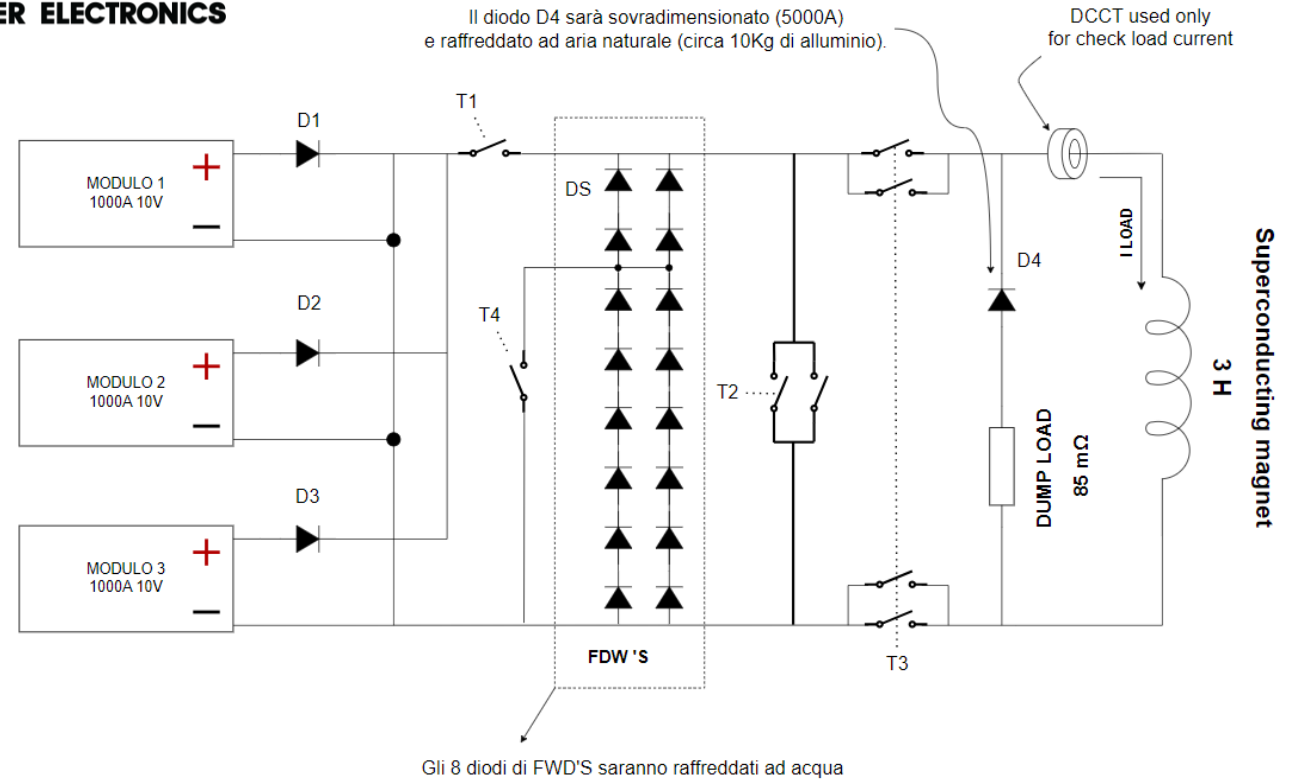
We commissioned to OCEM a study of old electrical parts for revamping and e verification and test of the 2 main contactors

Cost of the study will be deducted from the total cost of the supply

Due delivery date: May 2025



New Current Control System



95k€ for the study and test
320k€ “envelope” of global supply

190k€ assigned in 2024 by CSN1
Full order placed in 2024?

Magnet Test

Magnet & Control System Test

ASG-Superconductors has been asked to perform:

- Writing of a new LabVIEW control interface
- Full magnet test (warm and cold) at LNF and FNAL
- Design and building of a new service turret
- Drafting of all needed documentation

Received a first offer of 2.2M€

Reduced to 1.8M€ after removing the control SW

Further interactions on going,
intermediation margin exists

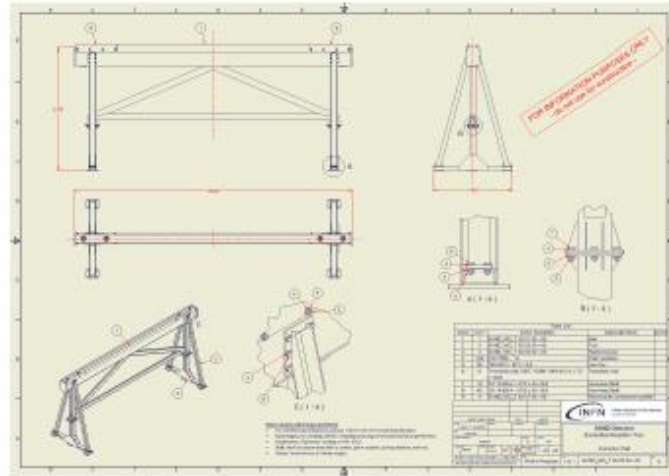


Truck Deck Extension

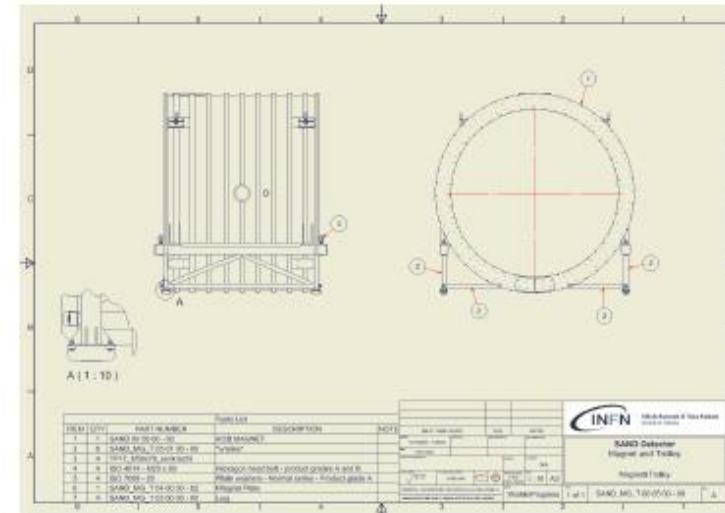
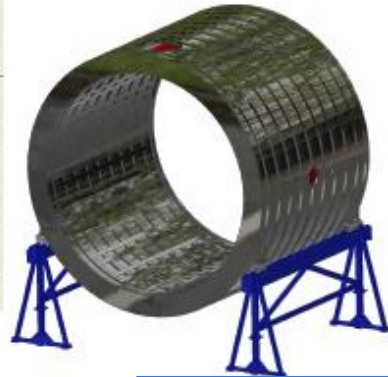


2025 requests for deck extension

Magnet Extraction



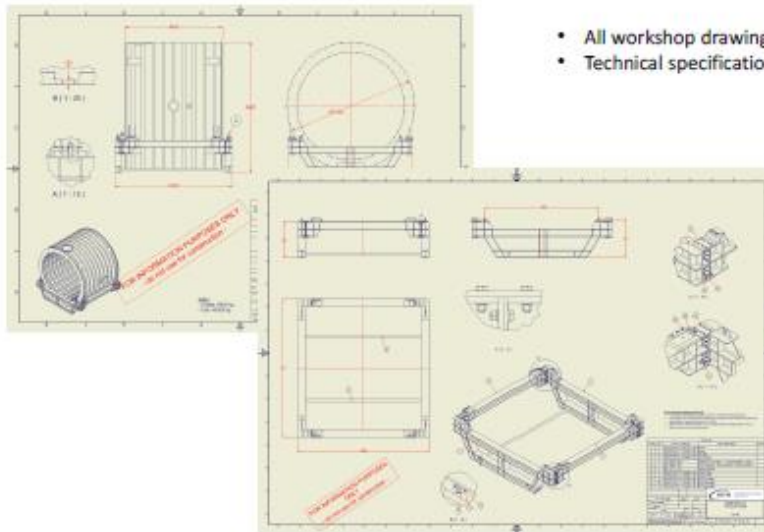
- All workshop drawings are ready
- Technical specification is ready



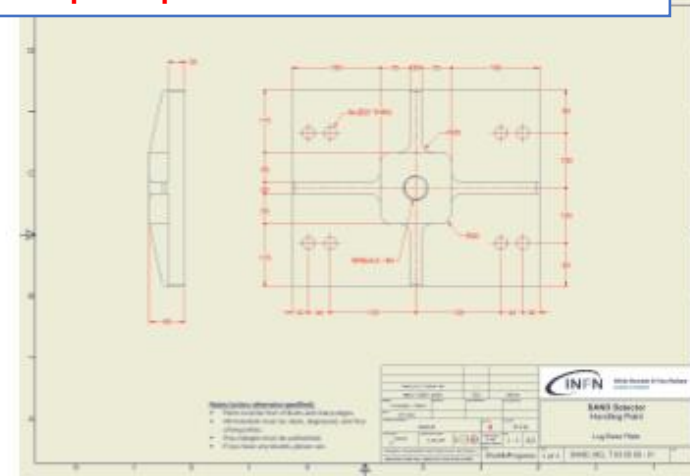
- All workshop drawings are ready
- Technical specification is ready



requests for extraction and transport tooling
Ask 2024 SJ or postpone in 2025?



- All workshop drawings are ready
- Technical specification is ready



- All workshop drawings are ready
- Technical specification is ready
- Holes centre spacing to be checked



Iron Yoke Dismounting

Ring and Turret block must
removed before coil extraction



Probably safe alert company
with O(1y) advance



requests for at least this part of yoke
dismounting in 2025

Richieste economiche 2025 LNF

Item	Stima Costo	Richiesta	Anno
Nuovo alimentatore e Sistema di controllo del Magnete			
Alimentatore OCEM 3000 A / -7V (-2 V) / 0 ÷ +6V	Preventivo OCEM	225	2024?
Raffreddamento e Test del Magnete			
Fornitura di 6000 L di LHe	Stima a 27€-35€/L	160k-200k	2025
Supporto ASG-Superconductors	Preventivo ASG	500k-1000k	2025
Estrazione del Magnete e Smontaggio Ferro			
Estensione campata del pontile carrabile	Stima	120k	2025
Attrezzatura meccanica per estrazione/inserimento/trasporto	Stima	100k	2025?
Noleggio gru mobile per carico/scarico magnete e yoke	Stima	70k	2025
Supporto ditta per smontaggio del ferro (Baldon)	Stima	85k	2025
Supporto ditta per smontaggio carpenteria e movimentazione carichi	Preventivo Architech Montaggi (300 gg-uomo)	80k	2025
Refurbishment Moduli ECAL			
Nastro, colla, metabolismo di laboratorio	Stima	50k	2025?

Situazione contabile giugno 2024 LNF

Item	Assegnati 2024	Spesi 2024	Residui 2024	Assegnati SJ 2024	Richiesta 2025
Alimentatore magnete	190	94,5	95,5	0	
Supporto ditta esterna	40	79,3	-39.3	40	
Noleggio gru smontaggio yoke	0	0	0	40	
Consulenza DL/CSP/CSE smontaggio yoke	5	0	5	0	
Elio liquido 6000 l	0	0	0	100	
Progettazione pontile	0	0	0	50	
Carpenteria supporto moduli barrel	0	6,1	-6.1		
Certificazione bilancino sollevamento barrel	0	4,3	-4.3		
Minuteria smontaggio (Cassoni)	0	0,4	-0.4		
Smaltimento rifiuti	0	5	-5		
TOTALE	235	189,6	45.4	230	