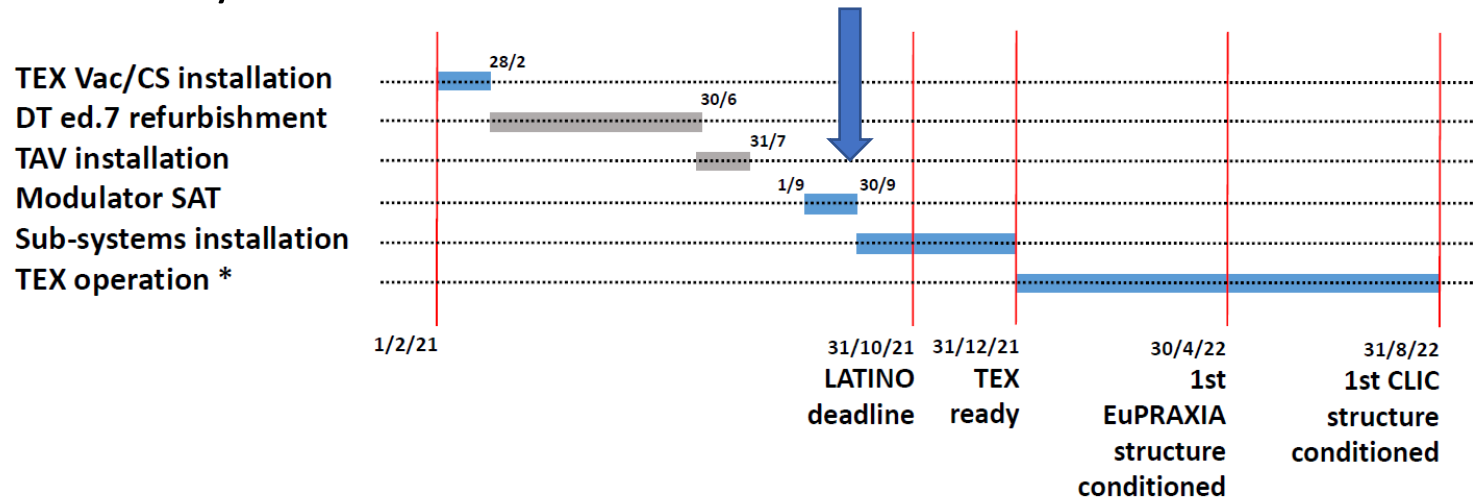


# TEX – TEst stand for X-band

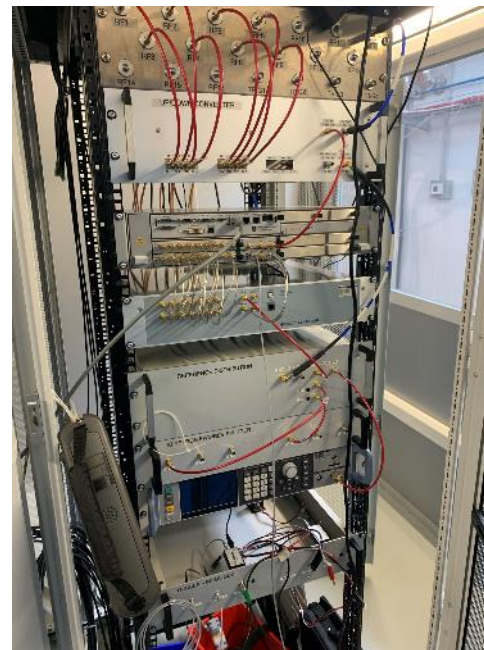
- The foreseen activity is on schedule.



Gantt chart of  
the 15/02/2021

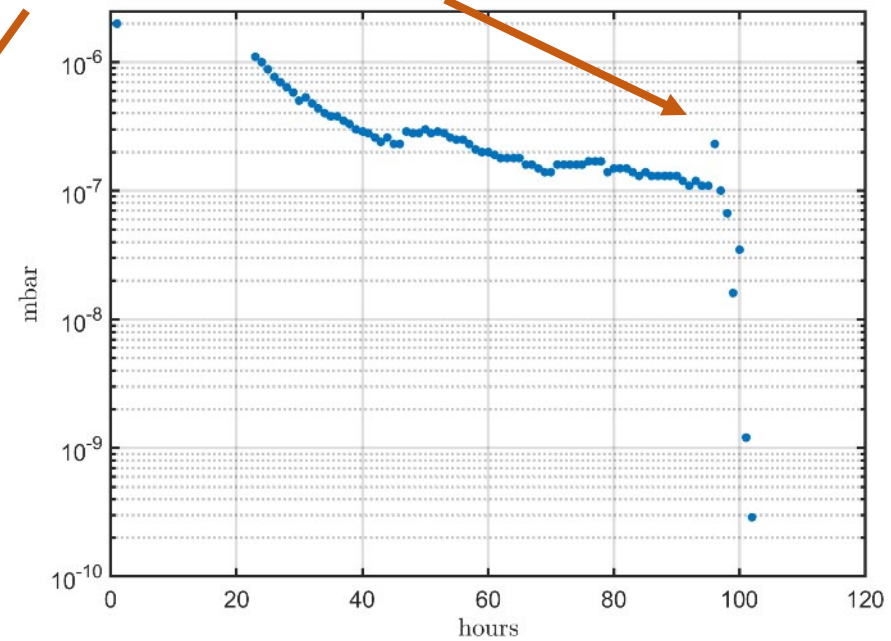
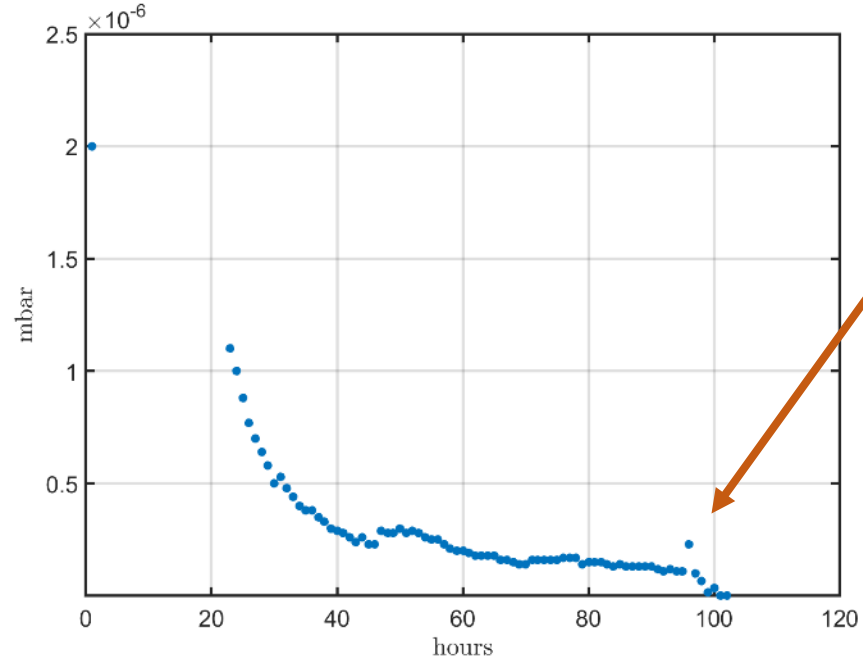
- From 6-28 September:
  - Connection of the Faraday cage and Klystron installation on the modulator tank.
  - Installation of the waveguide and load with supports.
  - Installation of the LLRF system.
  - Commissioning of the Functional Safety and EPICS Control.
  - Baking of the waveguide @150°C.
  - Connection of the solenoid magnets to the power supply.
  - Connection of the klystron cooling and test of the cooling system.
- Week 4-15 October: Site Acceptance Test of the modulator with ScandiNova staff and Klystron conditioning.

# TEX – SAT Preparation

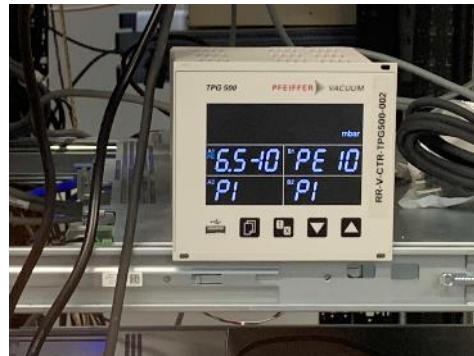


# TEX – Baking

Activation of NEG and ion pumps  
(switching off the heaters)



Before baking procedure



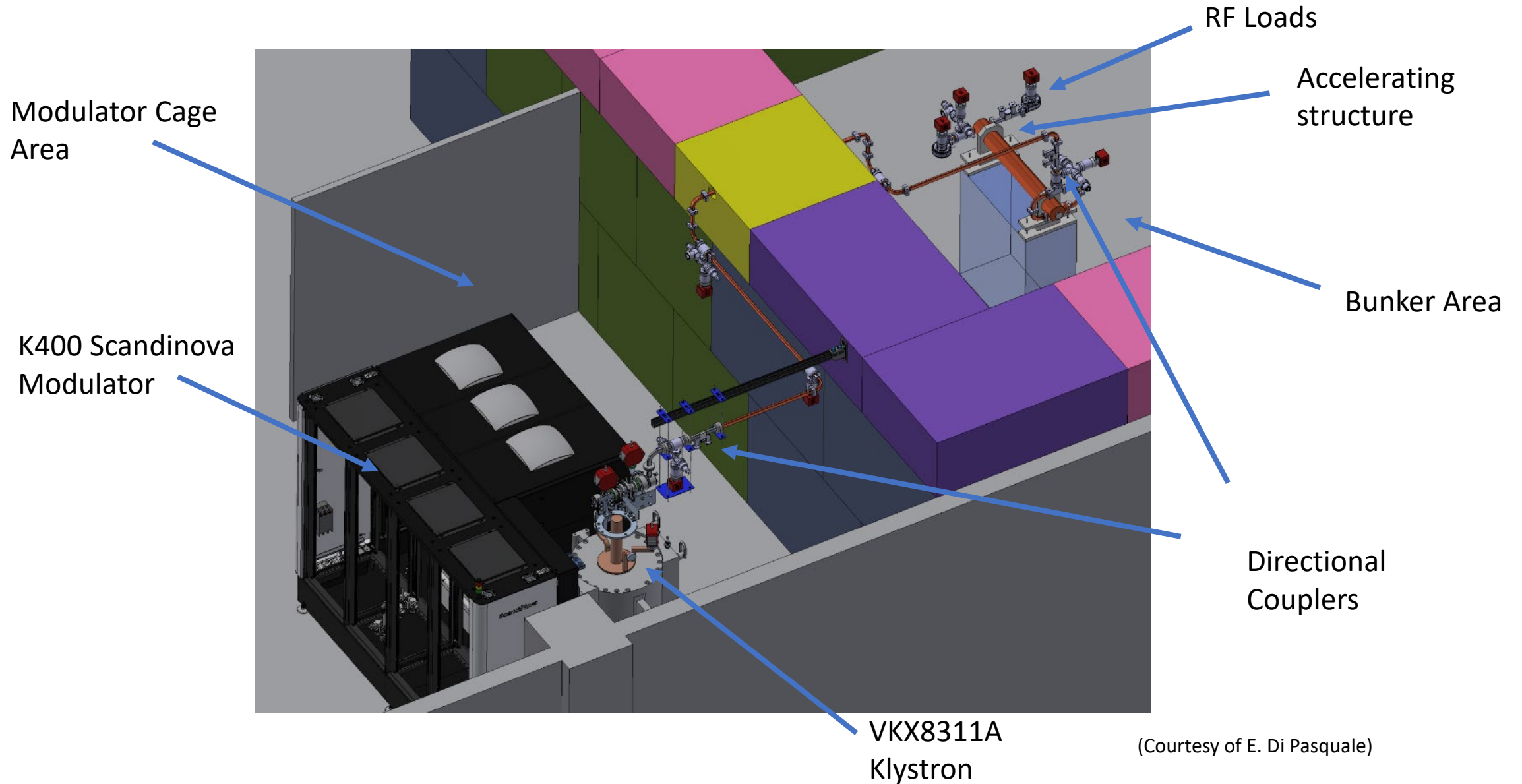
Actual value  
< 1E-10

# TEX – Schedule end 2021-2022

- Conditioning of the Klystron (2 weeks)
- Design and installation of the mechanical supports and girder, and complete waveguide network installation and conditioning (1 month)
- Conditioning and test of the first X-band accelerating structure prototype for Eupraxia (5 months)
- Conditioning and test of the CLIC accelerating structure prototype and of the Compact light X-band structure.
- Singularity development at TEX (2 weeks)

Servizi DA	Task	2021 – commissioning	2022 - operation
RF	Setup per SAT, installazione e test LLRF	0,4 FTE Tecnologi - 0,5 FTE Tecnici	0,4 FTE Tecnologi - 0,2 FTE Tecnici
Vuoto	Design and installation waveguide network	0,2 FTE Tecnologi – 0,2 FTE Tecnici	0,2 FTE Tecnologi - 0,1 FTE Tecnici
Linac	Klystron conditioning and modulator maintenance	0,4 FTE Tecnologi – 0,5 FTE Tecnici	0,3 FTE Tecnologi - 0,2 FTE Tecnici
Diagnostica	Installation diagnostics for structure conditioning (faraday cup)	0,2 FTE Tecnologi – 0,1 FTE Tecnici	0,1 FTE Tecnologi
Meccanica	Design and installation of the waveguide supports and girder	0,4 FTE Tecnologi – 0,3 FTE Tecnici	0,1 FTE Tecnologi – 0,1 FTE Tecnici
Controlli	Functional safety, high level applications and interfaces development	0,4 FTE Tecnologi – 0,2 FTE Tecnici	0,4 FTE Tecnologi
Operatori	SAT modulator and operations	360 (120 (fatte) + 240 (da fare))	5000 ore (h24 shift)

# TEX – Conditioning layout



(Courtesy of E. Di Pasquale)