



# NA magnet commissioning & IST status TE-MS

Cyril COT

12.03.2024

# Inspections performed

- **Audio-visual patrols**
  - Recently in all areas
  - Pulsing magnets to check coil shimming
- **Visual inspections to search for leaks / other problems**
- **Polarity checks, in collaboration with BE/EA**
  - Recently in TCC2

# Inspection results so far

- **Coil shimming**

- 31 magnets found with moving coils (21x QNL, 7x MBN, 2x QTS, 1x QWL)
- All repairable on-site (temporary means)

- **Leaks**

- Several leaks found on Walther connectors, which have been repaired
- One leak on a filter
- QNL.X0420371 shows a tiny leak on the manifold. A spare magnet is being prepared and will be exchanged during the next YETS.
- LSX.X0220134 shows a leak on the coil. A spare magnet is being prepared and will be exchanged during the next YETS.

- **Emergency stops**

- 3 emergency stops were found pressed, stopping power converter tests
- Please try to remember to remove the emergency stop if you use it during your works

# Inspections remaining

- **Polarity inspection (except TCC2) on Wednesday 13<sup>th</sup> of March**
  - Verification of polarity of all installed magnets
  - Planned during the hardware commissioning week with the respective beamline physicists
  
- **Heat-run (whole NA) on Thursday 14<sup>th</sup> and Friday 15<sup>th</sup> of March**
  - Operation of magnets in D-C at their maximum RMS current
  - Verification that sufficient cooling is available for the magnets

