Super- FRS magnets testing: activities 2021

Antonella Chiuchiolo
Work Package Leader Super- FRS magnet testing at CERN

GSI/CERN Collaboration Progress meeting
CERN, 22nd June 2021
Outline

• Timeline 2021

• Facility requirements and interventions

• Timeline S-FRS project
Timeline 2021 on May 2021

2.5 weeks delay due to:
* vacuum pumping and leak tests
* control software changes/commissioning

2.5 weeks stop due to:
* cryogenic shut down

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Timeline 2021 on June 2021

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Antonella Chiuchiolo / Super- FRS magnets testing: test plan 2021
Facility requirements and interventions (1)

- **Commissioning TB1** (W25-W28)
  - QDS, EE
  - RM10+RC11, RM30+RC30
- **Magnetic measurements** $SQ+OCT_A$ (W29-W30)
- **Commissioning TB2** for FoS Dipole
  - Precooler 1 for cooldown (W29-W30)
  - Precooler 2 for warmup
  - Interlock, QDS, EE, PC (1 circuit), data logging (W31-W32)
- **Preliminary magnetic measurements** FoS Dipole (W33-W34)
- **Finish Commissioning TB1** (W35-W36)
  - QDS, EE
  - RC21, RC31, RC10
- **Magnetic measurements** FoS Long Multiplet until end of campaign
- **Magnetic measurements** FoS Dipole until end of campaign
1. **TB2 interlock commissioning** preparation at warm *(July)* and then at cold *(August)*

2. **Dipole activities preparation** *(July)*  
   - Safety valve reception, test and installation  
   - Jumper connection  
   - Leak test  
   - Cooldown

3. **SM activities** *(July-September)*  
   - Nitrogen purging  
   - HV tests at warm  
   - Packing and shipment

4. **Instrumentation panel TB3** *(July-September)*  
   - Reception  
   - Installation and piping works

5. **New HV rack** *(July-September)*  
   - Parts procurement and assembly
Timeline S-FRS project

- FoS testing will be over on Q1 2022
- Preparation for series testing can start on Q4 2021
- Series testing can start on Q1 2022
Thank you for your attention