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SM18 magnet test infrastructure upgrades

Monday 31 March 2025 13:30 (30 minutes)

Oral presentation (20 min) + Q&A (10 min)

The test capabilities of the SM18 vertical magnet test station is growing alongside the more diverse magnets that will be tested there. An overview of the status of the test station will be presented, and the main upgrades will be summarized in this presentation. These include: a new insert with ~3 m long anticryostats for the Cluster D cryostat, a new setup in the HFM cryostat for (cryostated) magnet tests in a helium gas “bath”, the rehabilitation of the Cluster G feedbox for force flow gaseous helium cooled magnets, and a future new insert for the HFM cryostat for magnet tests in forced flow helium gas up to ~3-5 bar, and up to ~50-70 K.

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