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FRESCA and FRESCA2 facilities at CERN

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

FRESCA, the Facility for the reception of Superconducting cables was built in 1995-1998 at CERN to measure the electrical properties of Rutherford superconducting cables. Its main features are: independently cooled superconducting dipole (9.6 T for FRESCA1 and 13 T for FRESCA2), test currents up to 32 kA, temperature between 1.9 and 4.3 K, long measurement length of 60 cm and applied transverse field either perpendicular or parallel to the cable face. Within the outer cryostat containing the magnet, an inner cryostat is installed containing the sample insert. This approach makes it possible to change samples while keeping the background magnet cold, decreasing the helium consumption and cool-down time of the samples. In this presentation the FRESCA test facility and the typical measurements will be discussed.

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