

Magnetic Performance of First Low-Beta Dipole Corrector MCBX, A. ANG, L. BOTTURA, A. IJSPEERT, M. KARPPINEN, L. WALCKIERS, CERN; N. HAUGE, B.R. NIELSEN, Danfysik A/S - The LHC low- β triplets require a short and strong dipole corrector. The MCBX is a single aperture magnet, which features a horizontal dipole nested inside of a vertical dipole. The cold tests of the first prototype, which was designed by CERN and built by Danfysik A/S, have been carried out at CERN. This paper presents the results of the magnet training and quench propagation studies at 4.3 K and 1.9 K. The magnetic measurements carried out at constant field and in ramped conditions are compared to the expected figures from the calculations.