

The 1 m Long Single Aperture Dipole Coil Test Program for LHC, N. ANDREEV, K. ARTOOS, L. BOTTURA, G. KIRBY, J. OSTLER, D. PERINI, A. PONCET, F. RODRIGUEZ-MATEOS, S. RUSSENSCHUCK, T. SIAMBANIS, N. SIEGEL, A. SIEMKO, D. TOMMASINI, G. TRINQUART, I. VANENKOV, R. VENESS, L. WALCKIERS, W. WETERINGS, CERN - The CERN short model activity on main dipole magnets is centred around the design, in-house fabrication and testing of single and twin aperture 1 m long magnets. In order to study the influence of individual coil parameters in the magnet behaviour with a fast turn around rate and to qualify the possible design solutions priority was given to the fabrication of a certain number of single aperture dipole models. The collared coils are assembled in a reusable yoke structure and tested in a vertical cryostat at 2K. The present paper reviews the aims of the program, the design and fabrication to date of single aperture models, their instrumentation and the preliminary results and conclusions.