WP3 11 January 2018

(covers advemcements since December 1st)

MQXFA: DOE review approved the CD2 (project baseline) in December. Reception of the broken shell from the US; analysis is ongoing. Very sharp edges (with non measurable curvature radius) were found.

MQXFB: Successful insertion of cold bore inside the prototype magnet. Magnetic measurements confirm the low level of b6, consistent with the correction implemented in the second prototype. Completion of last short model MQXFS6 (final PIT), to be tested in January.

MCBXF: Inner dipole tested in December, reached ultimate without quench. Coil production of the outer dipole is ongoing in CIEMAT.

HO correctors: Assembly of the quadrupole is ongoing in SEAS-RIAL, test in LASA expected in March. Contract for the series to be awarded in January. HO corrector review in December supported the general strategy and design, and advised to review the need of a holding point in the production – as the manufacturer shall have the experience with quadrupole and dodecapole.

D1: Second test of second short model MBXFS2 proved good training memory and reached ultimate.

D2: Magnet was completed in ASG, and shall be sent to CERN in second week of January. A few operations shall be done in 927 before sending to SM18. Field quality measured at room temperature proved the compensation between two apertures within 10 units. Values of b3 and b5, around 10 units, shall possibly require a correction.

D2 corrector: Review held in December supported the general strategy and design, advised to have a design report with all parameters and agreement model/measurements. Test of the prototype after thermal cycle to be done in January.