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Overview of LTS HFM magnet and conductor activities

Thursday 22 May 2025 13:30 (25 minutes)

After recalling the updated baseline for LTS option in FCC-hh, with 14 T dipole field and 85 TeV c.o.m. energy, we will outline the main alternative options that are being considered, namely (i) operation at 4.5 K, (ii) hybrid Nb-Ti Nb3Sn magnets, (iii) 20 m long dipoles and (iv) reduced field in the 12 T to 14 T range. We will then outline the advancement in Nb3Sn conductor, magnets designs, demonstrator tests, protection schemes and cooling studies.

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