Contribution ID: **251** Type: **not specified**

Design Studies of 16 T Nb3Sn Dipole Magnets at Fermilab

Tuesday 30 May 2017 17:32 (2 minutes)

Cost-effective superconducting dipole magnets with operating fields up to 16 T are being considered for the LHC energy upgrade (HE-LHC) or a Future Circular Collider (FCC). Design studies of 16 T Nb3Sn dipole magnets based on 2-, 3- and 4-layer 50 mm aperture cos-theta coils with and without stress management elements are being conducted at Fermilab. The goal of these studies is to explore the limit of the Nb3Sn accelerator magnet technology, optimize magnet design and performance parameters, and reduce magnet cost. The work status and the results of these studies will be reported and discussed.

Author: ZLOBIN, Alexander (Fermilab)

Presenter: ZLOBIN, Alexander (Fermilab)

Session Classification: Poster session