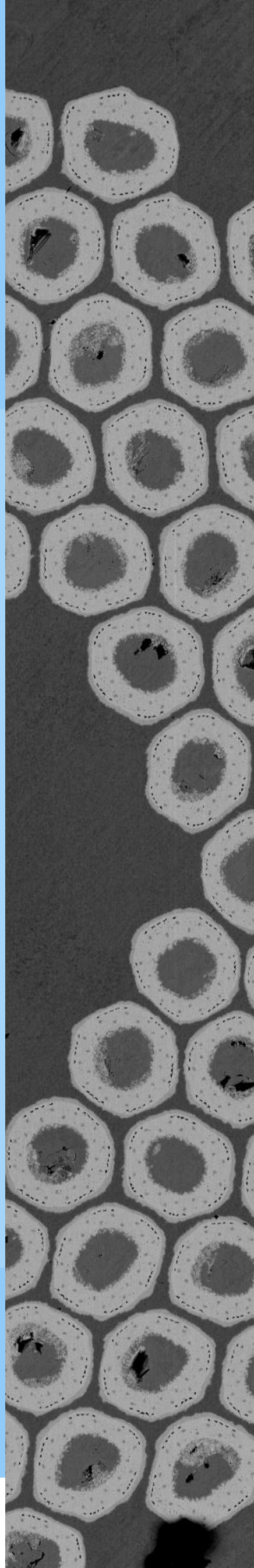
Workshop series announcement

Nb_3Sn Rutherford cable characterization for accelerator magnets



Several programs worldwide are developing Nb_3Sn magnets for high energy physics applications. The state-of-the-art 12 T insertion quadrupoles for HL-LHC and the 12-14 T high field dipoles are the results of decades of development during which various mechanical aspects of the conductor have been studied in numerous laboratories.

To push the Nb_3Sn technology safely towards the 16 T frontier, the community is invited to settle on a set of common characterization practices based on a shared vision of the underlying phenomenon and their consequences, the results of which will be applied to magnet design and fabrication phases.

Workshop #1 will focus on:

- Conductor dimensional changes during heat treatment
- Impregnated conductor mechanical characterization

This workshop is open to scientists and engineers involved in Nb_3Sn accelerator magnet development worldwide. Contributions are only oral. The scientific committee welcomes any suggestion of presentation/speaker.

16-17 November 2017

Compatible with HL-LHC collaboration meeting attendance

CIEMAT, Madrid, Spain

Scientific committee/Contact:
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