Contribution ID: **23** Type: **not specified**

Modelling stability on Nb-Ti cables; R&D on stability planned in the Cern cable test facility FRESCA

A brief overview will be given of the possibilities of modelling stability in superconducting NbTi cables. It will be shown that in many cases the accuracy of the modelling is poor (due to limited knowledge on cooling and current redistribution phenomena), so that additional experiments are needed. In the coming years, such experiments will be performed in the CERN cable test facility FRESCA under conditions comparable to LHC operation. The set-up of these stability measurements will be presented as well as the type of results that can be expected.

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Track Classification: Modelling stability on Nb-Ti cables; R&D on stability planned in the Cern cable test facility FRESCA