



Contribution ID: 84

Type: **Talk**

【203】 CHART MagDev No-Insulation ReBCO Solenoid Development

Monday 27 June 2022 17:00 (15 minutes)

No-insulation HTS ReBCO solenoids have been studied in numerous laboratories and commercial entities over the past years. The CHART MagDev project, in collaboration with Tokamak Energy Ltd. and CERN, is studying the solder-impregnated NI-coil variant. The goal is to provide an Adiabatic Matching Device for the positron source of the CHART FCC-ee Injector test stand and PSI's SwissFEL. In this presentation we show recent results from our technology R&D, discuss test results from our recently commissioned 2-kA cryogen-free test station, as well as the technical design of the AMD device to be constructed in the coming years.

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Session Classification: Applied Physics and Plasma Physics

Track Classification: Applied Physics and Plasma Physics