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Type: **Poster**

Magnetic field stability of a HTS insert large-scale prototype for a future 33 T CSM magnet

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This abstract presents the magnetic field dynamics of a large-scale prototype of a HTS insert when powered with a constant transport current. The use of a 2D electromagnetic model helps to identify the contribution of the changes of current distribution inside the superconducting layers affecting the stability. The existence of coupling currents dumping through resistive interfaces between tapes is also altering the magnetic field stability

Topic

Applications in large instruments such as high-field magnets, medical magnets and accelerator magnets

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