CAS course on "Introduction to Accelerator Physics", 22 September - 05 October 2024, Santa Susanna, Spain

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Superconducting Magnets

Tuesday 24 September 2024 14:50 (1 hour)

Superconductivity allows to construct and operate magnets at field values beyond 2 Tesla, the practical limitation of normal-conducting magnets exploiting ferro-magnetism. The field of superconducting magnets is dominated by the field generated in the coil. The stored energy and the electromagnetic forces generated by the coil are the main challenges to be overcome in the design of these magnets.

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