



Sample Project: Design of a new 5 to 6 tesla class superconducting solenoid for a...

Code	PH1354
Programme	TRAIN-PTES
Department	PH
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Title

Design of a new 5 to 6 tesla class superconducting solenoid for a...

Description

At CERN the design and R&D has started for the future magnet system required in a linear collider detector. A superconducting solenoid of 5-6T is foreseen for which a design has to be made and the superconductor developed. You will join the design team and contribute on one of the key issues like superconductor development, coil winding design, stability studies, quench propagation, detection and protection. I hope you can make it and join my team!

Skills

Applied Physics: Analysis and simulation for particle detectors, Cryogenics , Vacuum . Mechanical Engineering: Computer integrated/aided design, Heat Transfer, Numerical techniques and software (e.g. ANSYS, Abaqus...), Structural mechanics and machine development

Disciplines

Applied Physics, Mechanical Engineering

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