TIDM² x SC Magnets Lecture Series 2025



Contribution ID: 1

Type: not specified

Superconducting magnet tests: Introduction to the series of lectures

Tuesday 3 June 2025 16:30 (1 hour)

About the lecture:

This introductory lecture will begin with a brief overview of the origins and objectives of the training program, as well as a few words about the small but dedicated team behind its organization. It will outline the structure and practical aspects of the course, including the final examination options and the type of feedback we hope to receive from you.

Following this, a short overview of the four thematic parts that make up the training sessions will be presented. The lecture will then conclude with a general introduction to the fundamentals of superconductivity, the underlying motivations for testing in this field, and a description of the major components of a test stand.

About the speaker:

Graduating from the Technical University of Budapest as a mechanical engineer in 1994, Marta joined a small research team at CEDEX (Spain), where she was first introduced to superconducting magnet design and testing. In 1996, she joined CERN, contributing to the design of corrector magnets for the LHC. From 1999, she was responsible for the final assembly steps of the LHC main dipoles and led the technology transfer from CERN to industrial partners. Following that, she oversaw the contractual follow-up of the superconducting dipoles produced in industry for the LHC machine.

After one year of hardware commissioning for the LHC, she assumed leadership of CERN's Superconducting Magnet Test Facility (SM18), a role she held until 2020. She now leads the HL-LHC IT String —an integrated test facility dedicated to the High-Luminosity LHC project at CERN.

Presenter: BAJKO, Marta (CERN)