



Contribution ID: 24

Type: (a) Talk abstract only

Geodesy update

Tuesday 11 June 2024 11:06 (18 minutes)

Building the FCC tunnel, installing and aligning each component and experiment of the machine at the intended location will be a challenging task relying notably on the quality and accuracy of the geodetic infrastructure.

In collaboration with ETHZ, HEIG-VD, IGN and Swisstopo the development of the new geodetic infrastructure for the FCC has continued over the past year. Efforts were centered on the implementation of the CERN Geodetic Reference Frame, through the construction of the primary surface geodetic network and on the improvement of the local geoid model. Additionally, desk studies on methodologies and instruments for gravity field determination and on calibration, control and test facilities of the geodetic equipment needed during construction and operation of the FCC were also carried out.

The presentation will cover the task accomplished during the past year and give an overview of the remaining challenges.

Primary author: WEYER, Benjamin (CERN)

Presenter: WEYER, Benjamin (CERN)

Session Classification: Technical Infrastructure

Track Classification: Technical Infrastructures