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Survey Status Report on AWAKE, ELENA, and CENF

Abstract

Besides the main survey activities, which are presented in dedicated talks or poster, some projects are also progressing at CERN.

ELENA, a small compact ring for cooling and further deceleration of 5.3 MeV antiprotons delivered by the CERN Antiproton Decelerator, is being installed and aligned, for commissioning later this year.

AWAKE, a project to verify the approach of using protons to drive a strong wake field in a plasma which can then be harnessed to accelerate a witness bunch of electrons, will be using the proton beam of the CERN Neutrino to Gran Sasso, plus an electron and a laser beam. The proton beam line and laser beam line are ready to send protons inside the 10m long plasma cell in October. The electron beam line will be installed next year. The CERN Neutrino Platform is CERN's undertaking to foster and contribute to fundamental research in neutrino physics at particle accelerators worldwide. Two secondary beamlines are extended in 2016-18 for the experiments WA105 and ProtoDUNE. In parallel the detectors for WA104 are refurbished and the cryostats assembled.

This paper gives an overview of the survey activities realised in the frame of the above mentioned projects and the challenges to be addressed.

Summary

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