

The ENUBET neutrino beam

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ENUBET has been designed to monitor lepton production in the decay tunnel of neutrino beams at single particle level and to provide a 1% measurement of the neutrino flux at source. In particular, the three body semileptonic decay of kaons monitored by large angle positron production offers a fully controlled ν_e source at the GeV scale for a new generation of short baseline experiments. During the last year major advances have been achieved in the design of the positron tagger and the beamline. In Blois, the ENUBET Collaboration will present the performance of the positron tagger tested at CERN in 2017-2018, the design for the Reference Beamline - with special emphasis on the static focusing system - and the expected sensitivity of ENUBET for ν_e and ν_μ cross section measurements.

Subject

Neutrinos

Abstract Title

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Author's e-mail

anselmo.meregaglia@cern.ch

Author's Name

Anselmo Mereaglia

Author's Institute

CENBG-IN2P3-CNRS

Primary author: MEREGAGLIA, Anselmo (Centre National de la Recherche Scientifique (FR))

Presenter: MEREGAGLIA, Anselmo (Centre National de la Recherche Scientifique (FR))

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