

Fabio Iacob, University of Padova and INFN Padova, on behalf of the NP06/ENUBET Collaboration TAUP 2021 - Valencia: International Conference on Topics in Astroparticle and Underground Physics

Target Proton absorber ladron dump 8 Range-meter $(\mu^+ \text{ monitor})$

- tagging positrons in instrumented decay channel.
- tagging muons in instrumented decay in the hadron dump.

- innermost layer: > 28 MeV for e⁺

- hadronic bkg suppression permitted by longitudinal, transverse, and radial
- Neural Network is applied for optimal signal-



ENUBET: a monitored neutrino beam for the precision era of neutrino physics



The design of the cylindrical target has been studied to optimize the challenging trade-off between heat dissipation and yield loss due

EXAMPLE: consider as observable the position Z along the calorimeter of the muons from K-decays. Construct from MC simulation the PDF of Z, and store it as a histogram $PDF(Z; \vec{\alpha})$ Compute the likelihood for various values of the hadro-production parameters α