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Title of the poster: **Enabling high precision flux measurements in conventional neutrino beams: the ENUBET project**

Abstract text:
The main limiting factor for the precise determination of absolute neutrino cross sections comes from the uncertainties in the initial neutrino flux. The ERC granted ENUBET project aims at developing the technologies to reduce by a factor ~10 these systematics, allowing measuring the $\nu_e$ (and anti-$\nu_e$) cross section with a 1% precision, in the region of interest for future oscillation experiments looking for CP violation. This goal is accomplished by monitoring in an instrumented decay tunnel the high angle positron produced in $K_{e3}$ decays of charged kaons, in a sign and momentum selected narrow band beam. We will report the experimental results on prototypes (shashlik calorimeters with embedded SiPMs) obtained at the CERN-PS test-beam and the progress in the simulation of the positron tagger.

Summary:
Neutrino – High Precision Neutrino Beams – Tagged Neutrino Beams – Cross Sections – Calorimetry – SiPM