

The 22nd international workshop on Next Generation Nucleon Decay and Neutrino Detectors (NNN23)



UNIVERSITÀ DEGLI STUDI DI NAPOLI
FEDERICO II



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Comune di
Procida

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Neutrino Physics Program at NA61/SHINE

Friday, 13 October 2023 15:00 (20 minutes)

Future neutrino oscillation experiments demand a precise estimation of neutrino flux. The leading flux uncertainty comes from inadequate understanding of primary and secondary hadron-nucleus interactions. The NA61/SHINE experiment at CERN's Super Proton Synchrotron measures various hadron production processes with the goal of reducing the flux uncertainty of current and future accelerator-based neutrino beams. This contribution will present NA61/SHINE's recent hadron production measurements, current data-taking, and future plans for the neutrino physics program.

Presenter: REN, Lu (Colorado Boulder, USA)

Session Classification: Third Day - Contributed Talks