

Gabriel Botogoske

Country: Brazil City: Curitiba

- Electronic Technician - 2011 to 2015
Universidade Tecnológica Federal do Paraná
(UTFPR)

- Electronic Engineer - 2016 to 2021

Universidade Tecnológica Federal do Paraná
(UTFPR)

Final Project: System for controlling the relevant parameters of a cryostat containing liquid argon



-Master in Physics - from 2021 to 2023

Universidade de Campinas - UNICAMP

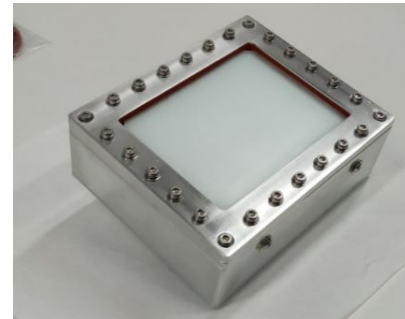
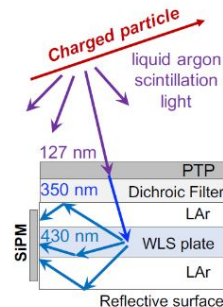
Supervisor: Ana Amélia Bergamini Machado

Co Supervisor: Anderson Campus Fauth



Thesis: Application of Arapuca technology for detection of scintillation light in liquid argon and Cherenkov radiation in water

SBND (Short Baseline Near Detector) at **FERMILAB**
→ Efficiency of ARAPUCA VIS
→ Front end electronics of the Photon Detection System

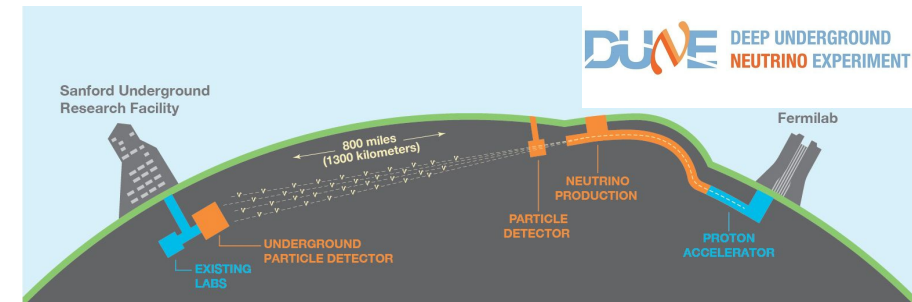


Working place: Napoli, **Università degli Studi di Napoli Federico II**

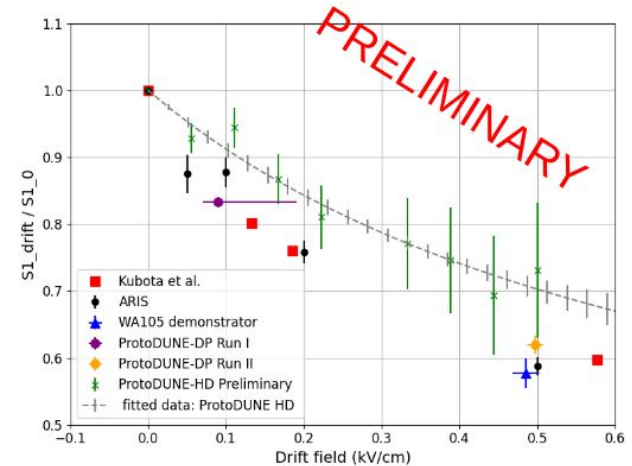
- Supervisor: Francesco di Capua
- Co Supervisor: Ettore Segreto
- **Dottorato Nazionale in Tecnologie per la ricerca fondamentale in Fisica e Astrofisica**
- **Curriculum: Rivelatori, laser e ottica**

DUNE - Deep Underground Neutrino Experiment

Neutrino oscillation experiment



Research goal: Study of the light detection properties of PoWER: A proposed Far Detector for DUNE



+ MACHINE learning do detect neutrino interactions and flavours



BACK UP

MORE WORK

Analysis of the X-ARAPUCA efficiency of DUNE far detector vertical drift (MEGACELL)

-At Naples: Analysis of the single face module

- At CIEMAT(Madrid)
Analysis of double face module
- Learned Geant4 to make Monte Carlo Simulations of the experimental setups

