

Highlights

DUNE

- Installation of 2 prototype periscopes for laser calibration at ProtoDUNE-HD (CERN)
- Final part of electronics board sent for production
- Preparing paper on laser simulation
- Neutron cross-section paper submitted



SNO+

- First reactor antineutrino detection in pure water (PRL) highlighted by Physics Magazine
- Status as CERN recognized experiment renewed
- About 1 year of stable scintillator phase data -> more physics ahead
- PhD defense of Ana Sofia Inácio, now at Oxford

Neutrino Physics Group @ LIP

- Current funding:
 - CERN fund DUNE grant 90k€ (2yr)
 - PTDC SNO+ grant 230 k€ (3 yr)
- Personnel news
 - Cristóvão Vilela, new researcher (also SND)
 - New MSc and Phd Students started 2022
 - New undergrad students
- Key coordination roles
 - SNO+: Analysis coordination, backgrounds (VL), water phase analysis (NB); antineutrino phys. (SA); Source Review, Exec. Comm. (JM)
 - DUNE: Calibration and Cryogenic Instrumentation Consortium, EB (JM)

SWOT

- S: key contributions and coordination positions, leveraging on high standards of LIP workshop and det. lab
- O: taking data in SNO+, reactor and solar neutrino physics; ties to LANL and CERN via ProtoDUNE
- W: need to add analysis topics in DUNE
- T: delays in SNO+ and DUNE, DUNE calibration funding not secure yet

