New Institutions from Sept. 2019 Meeting

- James Battat, Wellesley College
 - Near term: APA Consortium quality control/assurance highthroughput wire tension measurement (close coordination with Harvard group)
- Xiao Luo, UC Santa Barbara (former Yale postdoc on µBooNE, DUNE)

Near Detector:

- LArTPC pixel readout electronics test
- MPD design and construction

Xe-doping:

- LUKE & ICEBERG tests at PAB
- ProtoDUNE test at CERN
- Synergy with the UCSB LZ colleague robust R&D lab of Ar/Xe mixture at UCSB

Physics interests:

- DUNE Oscillation analysis <- uB expertise on event reco. and $u_{\mu}/
 u_{e}$ analysis
- Low energy physics in DUNE . e.g. solar neutrinos, supernova neutrinos @ far detector, exotic physics @ near detector, etc.



New Institutions from Sept. 2019 Meeting

- Andy Mastbaum, Rutgers University (former UChicago postdoc on SNO+, SBND, MicroBooNE)
 - Proposed Contributions:
 - Instrumentation & DAQ
 - Common DAQ and readout development for the ND LArTPC and HPgTPC
 - Online Monitoring development (building on SBN monitoring tools)
 - Leverages Rutgers computing and detector instrumentation capabilities, including an electronics design engineer, an electronics shop, and a machine shop and engineering staff
 - Oscillation Analysis
 - Development of ND LArSoft simulation (building on SBN expertise)
 - Development of systematics model (building on SBN, MicroBooNE)
 - BSM Searches
 - Extensions of SBN BSM (e.g. DM) searches to the DUNE ND
 - Collaborate with the Rutgers theory and CMS groups to develop novel BSM searches, explore joint searches with collider measurements



New Institutions from Sept. 2019 Meeting

- Nikolina Ilic, University of Toronto (also works on ATLAS)
 - Group interests:

• Hardware

- Development of DAQ & FELIX on DUNE
- Optimization of trigger primitives & supernova buffering in the readout
- Continued commissioning of DAQ with ProtoDUNE
- Installation of FELIX in DUNE

Physics

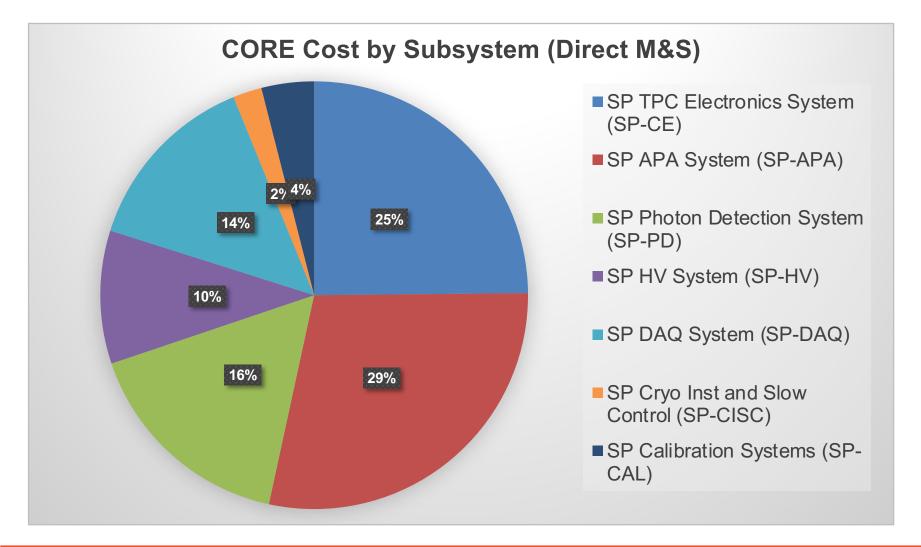
- Sterile Neutrino searches & nonstandard interactions
- Optimization of tau neutrino sensitivity with atmospheric & beam neutrinos



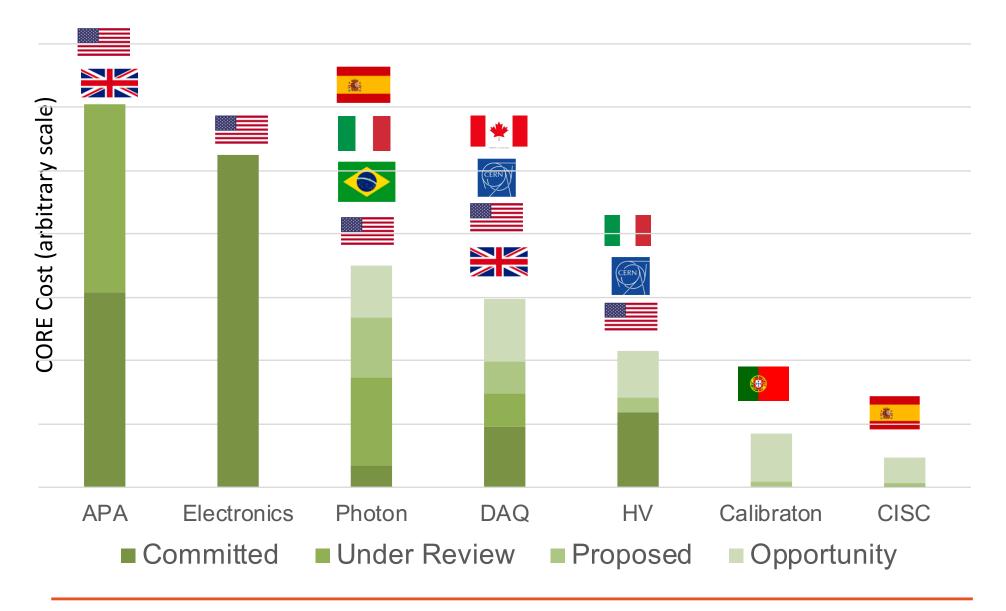


2 Single Phase Detectors

Preliminary Estimate : \$106M



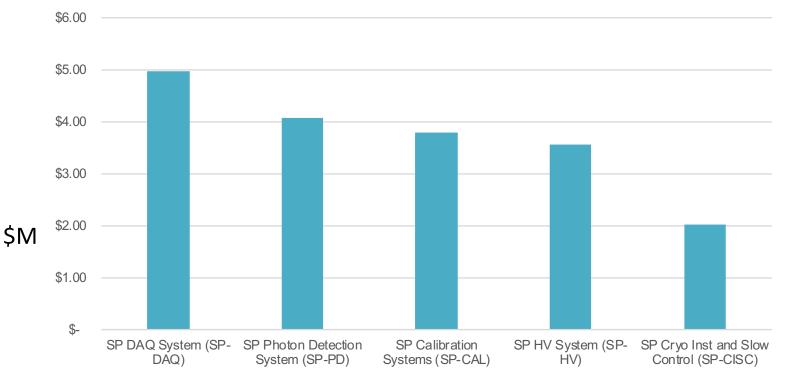






Funding needed to complete 2 modules

Opportunity Costs (CORE \$)



Developing action plans for each of these systems "CORE" is a realistic target since designs are complete Good systems for smaller countries/institutions to contribute

