

News

- **DUNE-FD-Phase2-APEX@fnal.gov**
 - New mailing list for future communications
 - Please subscribe 😊. Instructions: <https://listserv.fnal.gov/users.asp>

APEX Kickoff workshop @ SBU in June 2023

DUNE FD3 Mini-Workshop Toward a Combined Photon Detection and Field Cage System

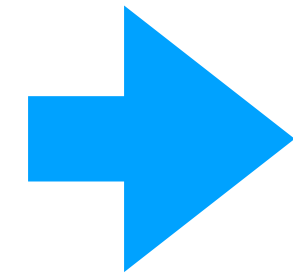
Jun 26 – 28, 2023
Stony Brook University Physics Building
US/Eastern timezone

- Discussed items (detector & electronics) that can be further improved/developed on top of VD design
- Discussed synergies with other FD3 concepts (TPC charge readout)
- **Make plans toward prototypes**

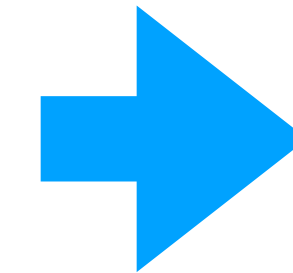


Prototyping Stages

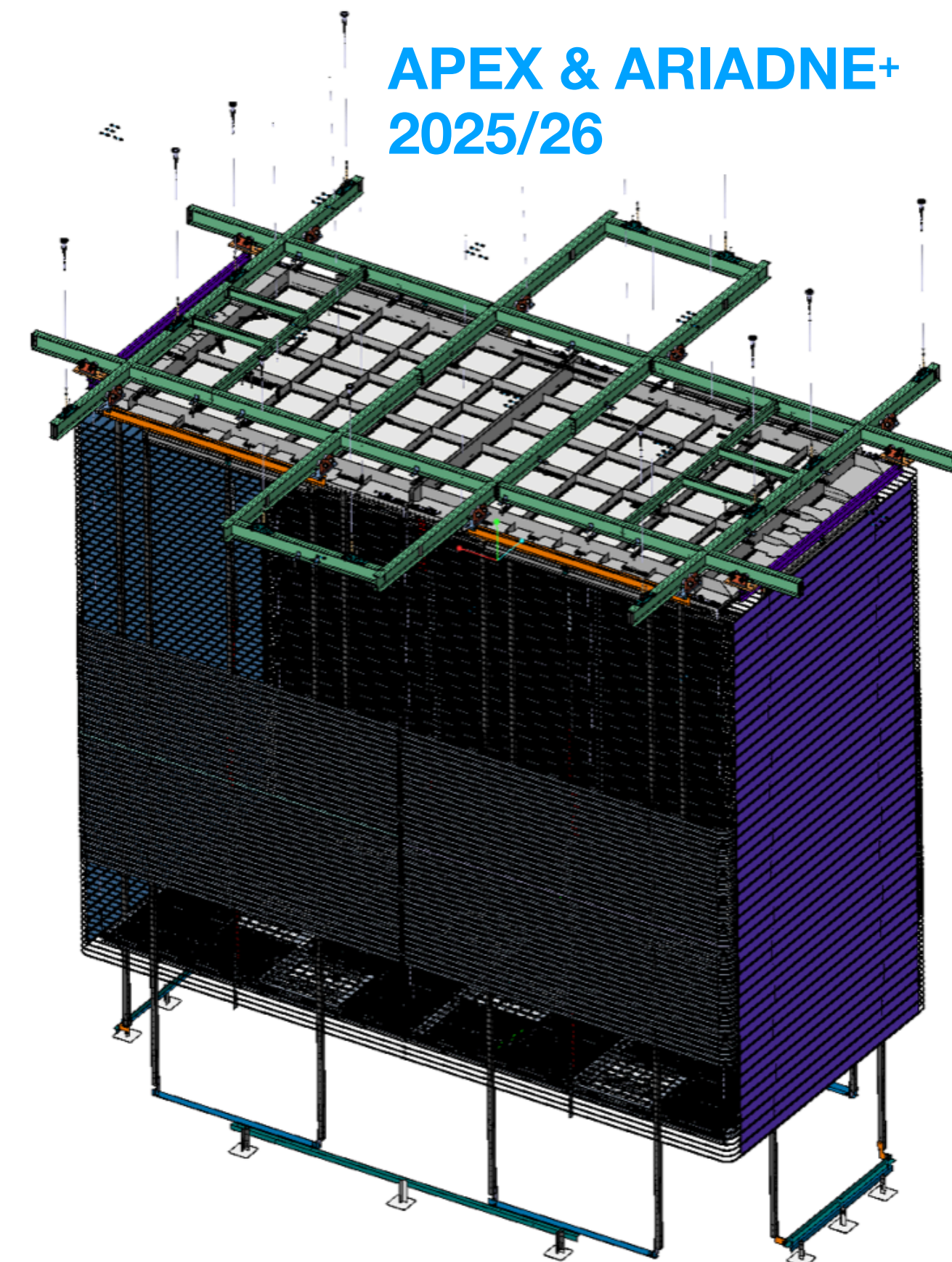
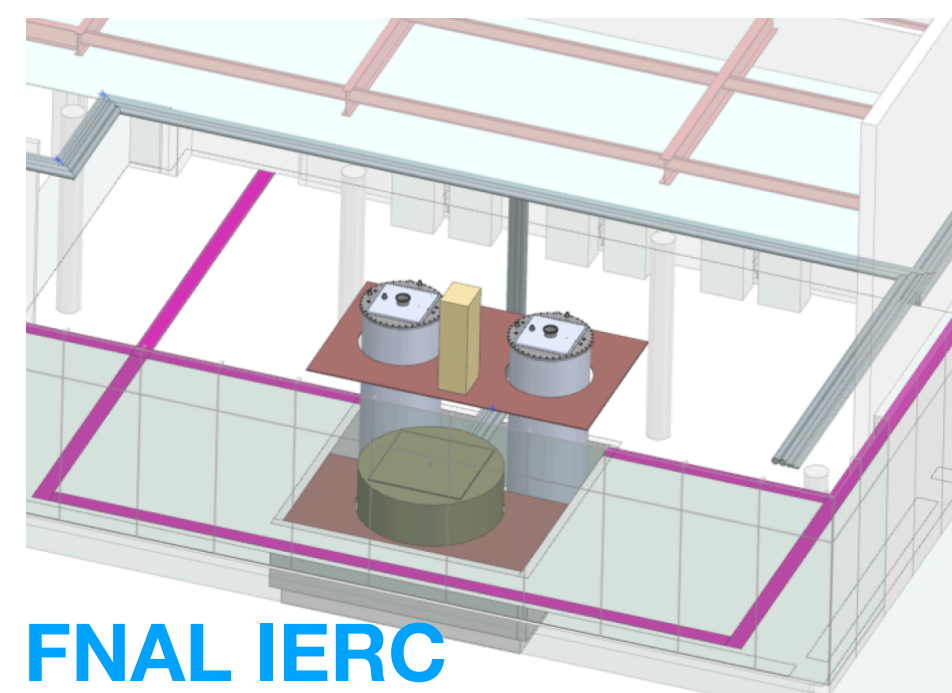
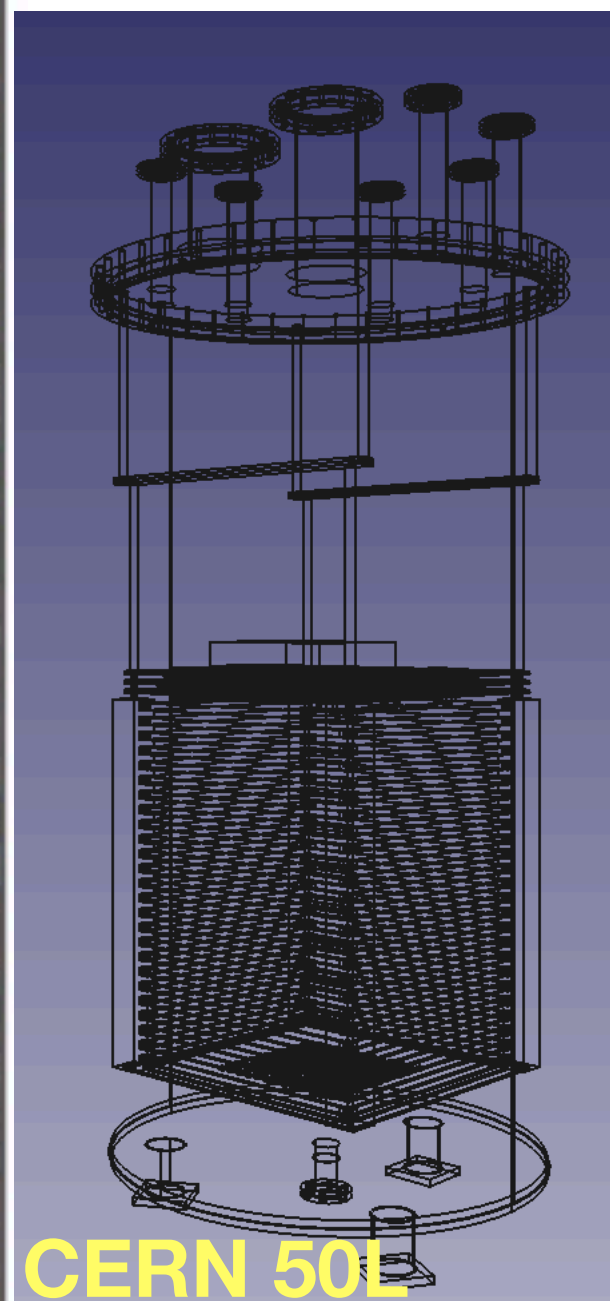
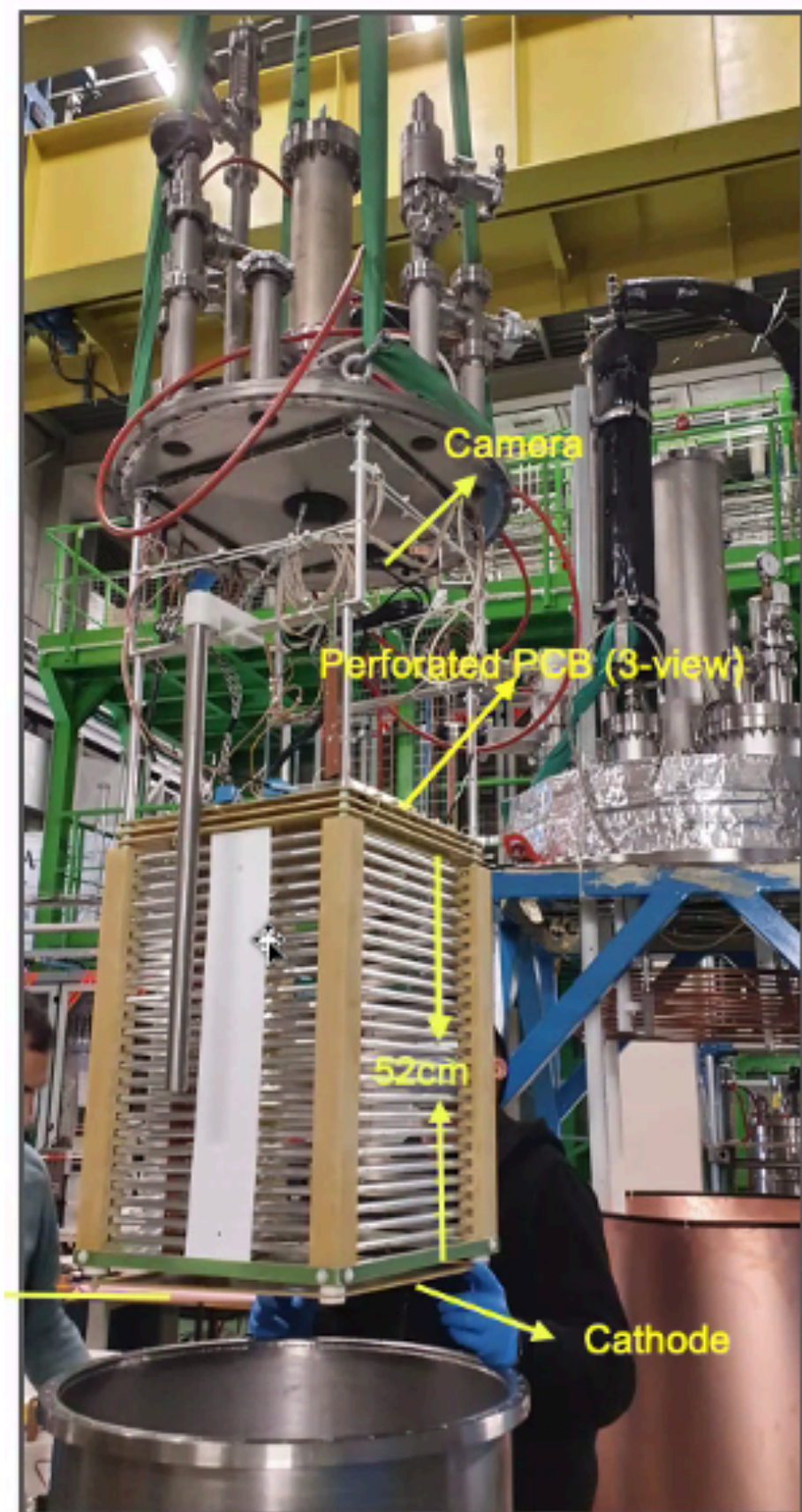
ProtoAPEX:
Table-top
50L TPC
2023-2024



Ton-scale
prototype
(CERN/FNAL)
2024-2025



ProtoDUNE
1kton-scale
(CERN)
2025-2026



Short-term Prototyping and Test Goals (2023/early 2024)

ProtoAPEX:
Table-top
50L TPC
2023-2024

Mechanical
&
Cryogenic tests (FNAL?)

Charge up test
E field evolution over time:
on surface (CERN)
&
underground
(LNGS?)

SiPMs, electronics,
PoF/SoF...

