

CERN Prototype Status and Updates

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Proposal Status

Title:

Proposal for a Full-Scale Prototype Single-Phase
Liquid Argon Time Projection Chamber and
Detector Beam Test at CERN

216 authors

43 institutions

from 7 countries

Submitted on June 8, 2015 to SPSC

Report number: CERN-SPSC-2015-020; SPSC-P-351

<http://cds.cern.ch/record/2022751>

Proposal Overview

Executive Summary : 1 page

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Milestones and Goals

- submitted EOI ([SPSC-EOI-011](#)) and received invitation to submit technical proposal to SPSC in fall 2014
 - submitted technical proposal June 8th
 - **Presentation to SPSC cttee on June 23rd**
 - 2016: TPC Production readiness review
 - 2016/17: Engineering Trial Assembly
 - 2018: Detector Installation complete
 - 2018: Commission detector and collect cosmics
- Goal:** Collect beam data before mid 2018 (LHC long shutdown)

Responsibilities:

DUNE: Detector Components, calibration tools

CERN: Cryostat, Cryogenics, infrastructure, beam (instrumentation)

Roadmap

- Proposal has helped to focus effort so far

Highest priorities in post-proposal writing era:

- 1) grow team and fully engage more collaborators and newcomers in all required activities
 - 2) aggressively pursue funding opportunities (in various countries) to help enhance effort and support people
 - 3) act on prioritized tasks and achieve milestones
(see today's presentation; discussions in progress)
- Develop synergies with other CERN nu-platform activities

Name Selection

Name selection for the CERN single-phase prototype detector at CERN from the suggestions that had been submitted is open until COB June 19th 2015:

<https://www.surveymonkey.com/s/NTJV6KN>

NOTE:

It asks for your name ONLY to avoid/identify double voting

Reminder:

Email list:

- We are using CENF-LBNF-Test@cern.ch
(Since our prototype detector and beam test will be part of the CERN neutrino platform)
- Self-subscription possible at: <https://account.cern.ch/account/>
→ Follow link “e-groups membership” or if you don’t have a CERN login yet follow “create a new account” first.
- Please let me (kutter@phys.lsu.edu) and Youlia Ilieva Krasteva (youlia.krasteva@cern.ch) know if you experience problems with the CERN based email list/e-group