

CERN Prototype Status and Updates

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SPSC questions

- Received written questions and posted as doc-db 11333:
http://lbne2-docdb.fnal.gov:8080/cgi-bin/RetrieveFile?docid=11333&filename=150701_Questions_DUNE_PT.pdf&version=2

Comments:

- Most (but not all) questions were already raised and discussed during discussion with SPSC referees on June 22nd
- Questions have been distributed to relevant experts to draft answers (in progress)
- Thanks for quick response from some experts
- Goal is to draft answer document now and revisit in late August/early September for final revision and editing
- Submission to SPSC referees planned for early September (allows for discussion and iterations with referees)
- Next SPSC Meeting: October 20+21, 2015

Name Selection

Name selection was open for ~1 week until COB June 19th 2015

A total of 10 name suggestions had been submitted. The name selection was open for 1 week and people had the option to indicate their 1st,2nd and 3rd choice or a subset thereof.

- 36 people participated and there was 1 invalid submission.
- Two candidate names received the same number of 1st choice votes:

	1st choice:	2nd choice:	3rd choice:
protoDUNE	8	8	4
TUNE	8	2	2

If 2nd and 3rd choice votes are included "protoDUNE" is the clear winner.

Following a recommendation from Mark Thomson and Chang-Kee Jung we submitted the outcome of the prototype name selection on June 24th to the IB chair for approval

→ Approval of name for CERN single-phase prototype on agenda for Aug. 14 IB meeting

Organizational issues

- DUNE leadership decided to delay selection of DUNE prototype coordinator + manager until later in 2015

Most critical tasks ahead:

- 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
- Develop synergies with other CERN and FNAL nu-platform activities

Ongoing/New Activities

- CERN EHN1 facility interface requirements need to be defined NOW

→ Will make several presentations at CERN nu-platform (integration) meeting to start discussion

- Installation and space requirements [Jack Fowler]
- Networking requirements [Maxim Pothekin]
- Power requirements [Terri Shaw]
- Grounding requirements
- ...

→ would be beneficial to have more people participate in these discussions and meetings

DOE FOA

Intermediate Neutrino Research Program

Summary section:

“We are interested in research that would align with the goals of the Intensity Frontier Program in investigating the properties and interactions of the known neutrinos and in searching for new types of neutrinos, as part of our implementation of the strategic plan for the HEP program.

Proposed experiments that are scientifically compelling, competitive within the world program, modest in cost and time-scale, and technically ready, will be considered. Overall programmatic priority and optimization will be evaluated using the criteria spelled out in the HEP strategic plan. In exceptionally strong cases, directed R&D work in support of technology needed for larger scale future neutrino experiments, and theoretical studies that can address some systematic limitations of these experiments may also be considered. Priority will be given to those efforts that can provide publishable results within a five-year time frame.”

Timeline:

- LOI (required; 4 pages) due date: Wednesday, July 29th (!)
- Application due date: Wednesday Sept. 2nd
- Award start: FY2016

Supplementary info:

“Capital equipment costs, including the necessary design and engineering effort, should total less than \$2,000,000 including escalation and contingency costs. Reviewers will be asked to specifically evaluate the cost estimates and technical readiness of the proposed effort.”

“Proposals for technology R&D or theoretical studies directed towards future experiments will be accepted **but will generally be assigned lower programmatic priority**; exceptions may be made if the scientific justification is particularly compelling.”

“Awards will provide funding for travel, materials and supplies, technical services and equipment. Funding for the necessary design, fabrication, installation, commissioning and operation of experiments and R&D efforts **will also be provided**. Any research support or infrastructure to be provided by the host facility should be noted in the application. “

“Proponents with existing experimental research support are assumed to have funding for all scientific personnel costs for senior investigators, postdoctoral associates and students required to perform the work proposed. In these cases, no funds will be provided for these costs. “

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