

Collaboration Matters

Mark Thomson & André Rubbia

Firstly...

★ Again, we would like to thank you for your support

- André and I are both deeply committed to making this experiment a success
- But only 2 days in...

★ The transitional process to XXXX has not been easy

- But the collaboration starts in a strong position because of the excellent work from the LBNE and LBNO and others
- Knowledge from and involvement of the previous leadership will be essential as we move forward

★ Moving forward...

- Build the new collaboration on this strong foundation:
 - Recognize past expertise [not a restart]
 - Allow new collaborators to get involved

Our first task: “CD-1-Refresh”

★ Context:

- DOE, Fermilab & CERN are **strongly** behind this project
- Genuinely believe we have the opportunity to construct the experiment on an attractive timescale
- The “CD-1-Refresh” process is an **essential step**
- **We must get this right...**

★ CD-1-R:

- Covers both facility (LBNF) & Experiment
- Exact structure of documentation to be discussed

★ Timeline:

- 2 – 3 June: Director’s Review
- 22 – 23 June: PAC
- 6 – 8 July: Full DOE review

**Time is
very short**

“CD-1-Refresh”

★ Scope:

- Science + technology +
- Cost range (including alternatives)
- Schedule (we need a **clear plan**)
- Collaboration and Project Management (demonstrate we can succeed)
- **Given the timescale, we must be realistic**
 - Don't overreach when setting scope of documents
- We will flesh-out a proposal in coming days and then present this to the IB for discussion

★ Organizing the work:

- Until governance rules are in place, can not put in place full collaboration structure, WGs, etc.
- **But must start CD-1-R work immediately**

CD-1 Task Forces

- ★ Set up “Task Forces” charged with delivering CD-1-R documents
 - Seek recommendations for task-force leaders from the IB (watch your email inbox today)
 - We will then appoint the task force leaders (next week)
 - Each task force will have a **clear charge**
 - “Task Forces” will stay in place until CD-1-R is delivered
 - Will then be replaced with full collab. WG structure
 - in some cases this will be an evolutionary process
 - + we have time to get this right
 - Implementation of collab. WG structure/leadership will be performed with active involvement from the collaboration

CD-1 Task Forces

★ **Proposed Task Forces [IB feedback invited]**

- Physics
 - Neutrino Oscillations
 - Nucleon Decay
 - Super-Nova Physics
- Far Detector [includes prototypes]:
 - Single-Phase
 - Dual-Phase
- Near Detector[s]
- Systematics [we will be asked to justify our assumptions]
- Software/Reconstruction [build in SBN experience]

★ **Will also need to cover:**

- **Cost/schedule**
- **Management**

Tempus Fugit

★ Time is short...

- The collaboration needs to pull together quickly
 - task-force meetings will be open to all
 - must build on experience [otherwise we will fail]
 - Strongly encourage broad involvement
- Aim to start this work as soon as possible
 - **i.e. next week...**
 - Please send nominations for potential leaders to André and myself by the **end of Sunday 15th March**
 - We will repeat all this in a longer email

Other collaboration matters

★ Plenty of other issues to discuss

- but, André and I are only still only two days in...
- updates at the **collaboration call** next week

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- but, André and I are only still only two days in...
- updates at the **collaboration call** next week
- Then start the **logo competition**
 - Please no worms...
 - “Sting” should not appear in any form...

Over to André