

ICFA Neutrino Panel meeting #22

06Nov16; 10:00 Beijing time

Present: J. Cao, D. Duchesneau, S.B. Kim, K. Long, H. Tanaka, M. Shiozawa

Agenda

1. Introduction and adoption of agenda

No modifications to the agenda were noted. The focus of this meeting will be to plan the steps taken to close the Panel's work successfully.

2. Notes on recent meetings and actions arising:

- **All:** Launch 4th Large Neutrino Infrastructure meeting preparation in September.
 - **Close:** agenda item.
- **KL:** Extract comments on discussion to a shared directory and begin to edit the document in the svn repository.
 - **Done.**
- **All:** Initiate the collection of data for the census using the agreed spreadsheet.
 - **Ongoing:** agenda item.
- **KL:** Contact panel members where necessary to discuss data gathering for census
 - **Ongoing:** agenda item.
- **KL, MW, DD, European Panel members:** Take soundings to understand whether a fourth large infrastructures meeting would be welcome in Europe (see item 6).
 - **Done.** Agenda item.
- **KL:** Prepare a 500-word abstract for Nature.
 - **Done.** Agenda item.

3. Roadmap discussion document

We discussed the comments received. Points noted:

- Following discussion of the comments made by T. Schwetz-Mangold, we agreed to add as a conclusion:
 - 4.n The combination of information in different data sets has the potential to lead to insights beyond those which can be obtained from any one data set in isolation. The combination of data from a variety of sources is likely to be of particular importance in the search for leptonic CP-invariance violation, the search for sterile neutrinos and the validation of the three-flavour paradigm. The present trend towards the publication of the information required to carry out such "global" fits is welcome.

- We agreed to accept C. Vallee's proposed inclusion and that **DD** would reduce the text to a length commensurate with other entries in section 4.3.
- We **agreed** to move the SK sentences to the section on "non-terrestrial" neutrino sources.
- We **agreed** to add an acknowledgement to the peer group and stakeholders for the comments received.
- We **agreed** that KL would write to the NuPRISM spokes (M. Hartz and M. Wilking) to ask whether an update to the NuPRISM and TITUS sections should be made (**KL**).
- We **agreed** to add a comment on T2HKK and that **SBK** would draft it.
- We **agreed** to include a comment on MOMENT. **KL** to solicit contribution.
- We **agreed** that a comment on THEIA should be included in the accelerator R&D section.

4. Neutrino physics community census

KL had been in contact with H. Abramowicz and the members of ECFA who were preparing for the ECFA survey in advance of the next European Strategy update. The status, as reported in separate emails, is that ECFA agrees in principle to help with the data gathering for the Panel's survey. The issue will be raised once more at the next ECFA meeting at the end of November.

JC had complete the survey for China and SBK was preparing the survey in Korea. TK and MS would prepare the survey in Japan. **KL** needs to contact once more N. Mondal to understand how to proceed in India. The status of the survey in the Americas needs to be clarified.

We discussed the scope of the census. We **agreed** that the Panel's survey should stick with the remit already agreed, but, going forward it would be valuable to extend the scope to include the broader neutrino-physics community.

5. Paragraph for IUPAP C11

KL had drafted a paragraph which had been circulated ahead of the meeting. Comments were requested.

6. Paragraph for Nature

KL had circulated a draft paragraph that exceeded the word limit prescribed by Nature. Comments were requested. It was felt that a revised draft should emphasise that the Panel's conclusions and recommendations were directed to four main areas: development of accelerator-based programme in an international context to maximise discovery potential of investment by the international partners; complementarity in the flagship programme a strength; the need for the international programme to encompass the supporting programme; and the need, going forward, to recognize the breadth of the

scientific programme and to include consideration of non-accelerator aspects of the neutrino programme in the development of a coherent, global approach.

7. 4th International Meeting on Large Neutrino Infrastructures

KL had contacted G. Blair (STFC Executive Director, Science Programmes), H. Abramowicz (ECFA Chair), and E. Elsen (CERN Director Research and Computing). No response except from H. Abamowicz who had agreed to raise the matter with ECFA.

DD had contacted S. Katsanevas who agreed that a 4th meeting would be valuable. In his opinion the meeting should be held at CERN to consolidate the position of the CERN Neutrino Platform in the global programme and to raise its visibility (and that of the neutrino programme) with the LHC community. The timing of the meeting should be related to the development of the arguments necessary to influence the development of the next European Strategy update. The meeting should seek to set the European activity in the global context. S. Kasanevas noted that the ApPEC roadmap would be published in the spring of 2017 and that SuperKamiokande would be discussed by ApPEC at its next General Assembly.

8. DONMs

KL will make a Doodle for a meeting late in December.

9. AoB

None.

Summary of actions

- **All:** Initiate the collection of data for the census using the agreed spreadsheet.
- **KL:** Contact panel members where necessary to discuss data gathering for census
- **KL:** Complete, circulate, update and submit abstract for Nature.
- **KL:** Contact N. Mondal and others as appropriate to complete the data gathering for the Panel's census.
- **KL:** Make a Doodle for the Panel's next teleconference.

10 December 2016

ICFA Neutrino Panel phone meeting #21 06-Nov-2016 02:00 UTC

London	06-Nov-2016 02:00 GMT	UTC + 00:00
Beijing	06-Nov-2016 10:00 CST	UTC + 08:00
Chicago	05-Nov-2016 21:00 CDT	UTC - 05:00
Madrid	06-Nov-2016 03:00 CEST	UTC + 01:00
Mumbai	06-Nov-2016 07:30 IST	UTC + 05:30
Padova	06-Nov-2016 03:00 CEST	UTC + 01:00
Paris	06-Nov-2016 03:00 CEST	UTC + 01:00
Sao Paulo	06-Nov-2016 00:00 BRST	UTC - 02:00
Seoul	06-Nov-2016 11:00 KST	UTC + 09:00
Tokyo	06-Nov-2016 11:00 JST	UTC + 09:00
Toronto	05-Nov-2016 22:00 EDT	UTC - 04:00
Wroclaw	06-Nov-2016 03:00 CEST	UTC + 01:00