

Nufact16 SPC Discussion items

Agenda of SPC meeting at Vietnam

- Review of NuFact16 organization
- NuFact17 venue final approval and status of preparation
- Discussion
 - Scope of this workshop
 - Frequency of this meeting

Scope of this workshop

- Future
- Accelerator-based **experiments**
- Using Neutrino beams & muon beams,
- **Also beam dump and collider searches for heavy neutrinos and LFV processes**
- including
 - theoretical aspects
 - supporting measurements
- And technical challenges to realize the future projects mainly on accelerator & beam
 - Detector focused meeting is NNN
- Reasonable/stable fractional mixture of
 - Review of present cutting edge experiments
 - Next generation experiments
 - Future projects

Scope of these Workshops

- Review of theoretical studies of neutrino and muon physics.
 - current status
 - future directions
- Review of current experimental studies of neutrino physics.
 - accelerator-based neutrino experiments
 - associated beam dump and collider searches
- Review of current experimental studies of muon physics.
- Preparations for near-future experimental studies of neutrinos and muons
 - Design of conventional super-beams
 - Design of associated detectors
- Preparation for future muon-sourced neutrino facilities
 - Accelerator and beam design
 - Detector considerations
 - Associated R&D program
- **DO WE CONTINUE TO CALL THIS SERIES “NuFact”?**

Special Characteristics of the Workshop

- Rotation across world regions (Europe, Americas, Asia)
- Continuity of questions addressed :
list of questions is transmitted from one year to the other
- Format encourages original and new contributions
- Emphasizes common issues among various experiments and fields of expertise accelerator, experimental and phenomenological aspects are shared.
- Continuity of Working group conveners
rotating assignment on a 3-year basis
- Written proceedings

These features lead to very creative workshops

Procedure to decide frequency

- Before Vietnam meeting (SPC phone meetings)
 - Collect material in a single place so that people can see the history of discussions and various arguments
 - One can express opinion/arguments in a SPC phone meetings. → should make 1 slide of summary and put it to the web page
 - Will not make decision and too-detailed discussions through phone. It is very difficult to have effective discussions on this kind of important issue
- At Vietnam
 - At the beginning of the meeting, this issue is raised to the audience and give them chance to consider during the workshop
 - Will have 1hr discussion session with all participants on the scope and frequency of the WS
 - Aug.25(Thu) 1700-1800
 - Final decision in SPC meeting on Aug. 26 (Fri)
 - Try unanimous consensus
 - If not vote.
 - Welcome phone connection and if one cannot join, allow proxy vote to reflect maximum opinions

Related conferences

- Neutrino conference
 - Accelerator-based, terrestrial, astroparticle
 - Main focus on physics results
 - Future program is secondary
 - Once/2years
- Neutrino factory
 - Future, accelerator-based neutrino experiments
 - Both technical challenges & physics
 - Every year
- Neutrino oscillation workshop (NOW)
 - Neutrino oscillation (acc, terrestrial, ...)
- Next generation Nucleon decay and Neutrino detector (NND)
 - Main focus on Next generation large detectors
 - Cover accelerator & non-accelerator, astroparticle
 - Also focus on technology development

Related conferences

- Neutrino beam instrumentation workshop (NBI)
- The international workshop on future potential of high intensity proton accelerator for particle and nuclear physics (**HINT2015**)
 - Intensity frontier flavor physics (μ , ν , K, n, Nucl.)
 - Technical challenges (targetry, ...)
- High Power Targetry Workshop (2014, 2016, 2018,..)
 - “brings together scientists and engineers from the international community for particle accelerator targets. Applications include neutrino facilities, neutron facilities, muon facilities, radioactive ion beams (RIBs), materials irradiation facilities and precision experiments for rare processes.”