

## ROUND TABLE FOR NUFAC 2020

Main discussion topic is traditionally the future of accelerator-based neutrino physics

the theme would then be something like this:

**-(I)- on the way to DUNE and HyperK** : how do we organize the co-existence to the best of the field?

- status and issues for both

- joint projects related to:

  - beamline technology, hadroproduction measurements

  - cross-section systematics and how to tackle them:

    - dedicated facility: Nustorm and ENUBET could be addressed here

  - PMNS analysis and BPMNS analyses and joined preparations for it

- maximizing the complementarity

- **beyond DUNE and HyperK: more precision – systematic or statistics?**

  - why should we do that? and when?**

  - **ESSnuSB, ORCA-Provino, HyperKK**

  - **or will we switch to other topics? Which ones?**

This is an important but **ill-prepared** point  
see slide 3

The main aim is to invite the audience to engage in discussion with some important figures of the field

Who to invite?

3. try to have one rep each from CERN/Fermilab/KEK-JPARC

-- ask Gianotti (or next CERN DRC), Yamauchi, Lockyer (**maybe Womersley**)

2 -- ask spokespersons of T2K/HyperK and DUNE or a rep. specialized in LBL systematics

1 -- someone from ENUBET and/or NUSTORM

1 – a theorist: S. Petcov or american theorist

total is 7 people.

***WE SHOULD HAVE MORE ASIAN REPRESENTATION IN THE R.T.***

Following comments in particular from Tord and Marcos, the subject II seems essential to NUFACT but not well enough established in the community for a round table discussion

→ This goes in the direction of organizing a dedicated session on these issues I would say:

-- **beyond DUNE and HyperK: more precision – systematic or statistics?**

**why should we do that? and when?**

-- **ESSnuSB, ORCA-Protvino, HyperKK**

-- **or will we switch to other topics? Which ones?**

1. DUNE status, expected nominal, best and worst case, performance
2. HyperK status, expected nominal, best and worst case, performance
3. HyperKK
4. ESSnuSB normal, best and worst case
5. ORCA protvino
6. recall NUFACT performance (and beta beam?)  
NB this is timely as muon collider R&D might restart.

7. discussion

This could either be a nice joint session between WG1 WG3 or a full plenary.