

Proposal for WG5

The nufact15 'legacy paper' recommends that

- that Nufact continues its role as cradle of ideas for accelerator based neutrino sources
 - discusses the creation of a 5th working group to attract new theoretical ideas
 - e.g. Enrique Fernandez suggested a «theory» working group
- more discussions with Enrique and others have led to the suggestion of a working group on

'Neutrinos Beyond PMNS'

In the tradition of the NUFACT meetings this would involve experimenters as well as theorists



WG5, 'Neutrinos Beyond PMNS'

TOPICS and QUESTIONS *could* cover the following :

- general discussion, motivation and, possibly, rationalization of models beyond PMNS
- experimental searches for right handed neutrinos
 - nuclear decays and galactic emissions (no emphasis)
 - short baseline oscillations
 - observation of neutral decays in beam dump experiments and neutrino beams
 - observation in e-e- colliders (W-W- final state)
 - observation in Z and Higgs factories
 - observation at hadron colliders LHC, HL-LHC and SppC and FCC-hh
 - unification of interpretation framework
- other beyond PMNS, NSI, etc.

Possible conveners: Silvia Pascoli, Pilar Hernandez, Andrea de Gouvea enthusiastic.

Other possibilities include: Osamu Yasuda, Sanjib Agarwalla;

NB these are ~senior phenomenologists. Should we involve experimenters?

Suggestions?

(e.g. M. Shaewitz or J. Conrad, someone from LHC, A. Golutvin/ N. Serra etc.)

