

# General info

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4th nufact08 followup meeting  
14/03/2008

- Public web site ready
- Registration will open tomorrow

# Plenary program

- Almost final
- Most speakers have been contacted
- 15/25 have accepted. Waiting for the rest
  - Introduction
    - (C,a) Neutrinos in the standard model and beyond (H. Murayama, C. Quigg)
    - (C,d)(P,a) Physics of massive neutrinos (Y. Nir, C. González-García)
  - Oscillation physics
    - (P,a) Optimisation of future neutrino oscillations facilities (O. Mena)
    - (M,a) Status and prospects for LBL experiments ( N. Saoulidou)
    - (A,a) Status and prospects for Reactor experiments (D. Lhuillier)
    - (C,t) Status and prospects for solar and atmospheric neutrinos (M. Chen)
    - (N,d)(C,a) Beyond 3 neutrino oscillations (A. Strumia, A. de Gouvea, C. Giunti)
      - Oscillations with more than 3 neutrinos
  - Detectors
    - (A,c) Detector R&D for future neutrino oscillations facilities (M. Ellis)
      - Solid detectors: MIND, T ASD and ECC (emulsions)
    - (A,t) Future detectors for particle and astroparticle physics (E. Kearns, B. Fleming)
      - Liquid detectors: WC and Liquid Argon

- Accelerator
  - (A,a) Results and lessons from the operation of current beams for neutrino experiments (E. Gschwendtner)
  - (PE,d)(A,c) Beta-beam R&D status (M. Benedikt, E. Wildner)
  - (A,a) Experiments for Accelerator R&D (H. Kirk)
    - MERIT, MICE, EMMA, ...
  - (A,a) R&D on Limiting Technologies for Muon Accelerators (A. Bross, A. Jansson, D. Li)
  - (A,a) From the neutrino factory to a muon collider (R. Palmer)
- Scattering physics
  - (JM,c) Phenomenology of neutrino-nucleus interactions (U. Mosel, L. Alvarez-Ruso, S. Singh)
  - (M,c) Experimental status and prospects (C. Polly, T. Nakaya, S. Zeller, )
  - (JM,c) Neutrino scattering physics at future neutrino oscillation facilities (R. Petti, P. Fisher, D. Meloni)
- Muon physics
  - (A,a) The scientific case for muon physics at a neutrino factory (Andrzej Czarnecki)
  - (A,c) Experimental prospects for muon physics at a neutrino factory (Klaus Jungmann)
- Miscellaneous
  - (P,a) Non oscillation flavor physics at future neutrino oscillation facilities (O. Yasuda)
  - (C,d,d,a) Prospects for mass scale and inverted hierarchy in non oscillations experiments (E. Akhmedov, A. Strumia, S. Pascoli)
    - Double beta decay and supernovae
  - (C,d)(N,d)(N,a) What cosmology can tell us about neutrino physics in the next 10 years ? (L. Verde, J. Lesgourgues, S. Pastor, A. Melchiorri )
  - (N,d)(P,t) Synergies between neutrino physics and collider physics (A. Santamaria, A. Pilaftsis, T. Schwetz)
  - (A,c) Hadron production (B. Popov, S. Kopp, J. Panman)
  - (A,c) Overview of the Project X and its connection to neutrino physics (D. MCGinnis)
- Final Talk
  - (P,t) C. Quigg

# WG progress

- In the twiki WEB site

|     | Topics | Sessions | Talks | Speakers |
|-----|--------|----------|-------|----------|
| WG1 | done   | done     | done  | 1/2 done |
| WG2 | done   | done     | done  | 1/2 done |
| WG3 | done   | done     | done  | 1/2 done |
| WG4 | done   | done     | done  | 1/2 done |

- For next meeting

|     | Topics | Sessions | Talks                  | Speakers    |
|-----|--------|----------|------------------------|-------------|
| WG1 | done   | done     | <b>done (2nd iter)</b> | <b>done</b> |
| WG2 | done   | done     | <b>done (2nd iter)</b> | <b>done</b> |
| WG3 | done   | done     | <b>done (3rd iter)</b> | <b>done</b> |
| WG4 | done   | done     | <b>done (2nd iter)</b> | <b>done</b> |

# Joint sessions

- All joint sessions have been proposed

|     | WG1 | WG2 | WG3 | WG4 | TOTAL |
|-----|-----|-----|-----|-----|-------|
| WG1 |     | 3   | 1-2 |     | 4-5   |
| WG2 | 3   |     |     | 1   | 4     |
| WG3 | 1-2 |     |     | 1-2 | 2-4   |
| WG4 |     | 1   | 1-2 |     | 2-3   |

- WG1-WG2: should match session number
- WG1-WG3: (partial) better define contents
- WG2-WG4: better define contents ?
- WG3-WG4: better define contents ?

# Next meeting

- Probably the last one
- In three weeks
- WG programmes should be completed (1st version)
- Discussion about session chairs and discussion leaders