

NuFact2016

# WG3 Program

(for SPC meeting April 22)

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# Summary of WG3 program (in working)

- 4 plenary talks
  - Status and prospects for multi MW accelerators (Tadashi Koseki, Steve Holmes )
  - Towards high intensity neutrino beams (Takeshi Nakadaira, ?)
  - Muon collider status (Someone from Europe)
  - Towards high precision neutrino beams (MICE or + Nufact+New idea?) (Ken Long)
- 10 parallel sessions
  - 5 dedicated sessions for talks (PD + targetry, MICE, NF+MC, 2 for neutrino beamlines)
  - 3 joint sessions with other WGs (WG1+2+3, WG3+4, WG4+5)
  - 1 summary session

# Potential talks

- Proton drivers and targetry (PS1)
  - Future upgrade plan of J-PARC accelerators (KEK, T. Koseki, Conf.)
  - R&D of superconducting Half-Wave Resonators for high intensity proton driver (G. T. Park, KEK, Conf.)
  - Latest results on in-beam W powder target at CERN
  - RaDIATE collaboration
- Proton drivers and targetry (PS2)
  - LBNF target optimization (?)
  - HyperK target operation (?)
  - MOMENT target optimization (Nikos, Vassilopoulos, IHEP, Conf.)

# Potential talks

- MICE (PS3)
  - MICE Construction Progress (magnets included)
  - MICE Step IV
  - Beam dynamics optimization
  - MICE Cooling Demonstration
- Neutrino Factories + Muon Collider (PS4)
  - What is required for a Neutrino Factory - ?
  - **What is required for a Higgs Factory – Dan Kaplan**
  - What is required for a multi-TeV Muon Collider –Mark Palmer
- New neutrino beamline (PS5)
  - Neutrino beams optimization for Physics (Alberto Marchionni)
  - High Energy Tau Neutrino Physics – Dave Neuffer
  - **DUNE as a Way to NuSTORM - Milorad Popovic**

- Neutrino beamline (PS6)
  - LBNF and other FNAL neutrino beamlines
  - ESSnuSB
  - Japanese Neutrino Beamlines
- J123 (PS7)(Talks almost agreed)
  - NuPIL overview (Alan Bross)
  - MOMENT overview (Jingyu Tang)
  - Hadron production measurements [WG1, speaker]
  - EMuS for MOMENT R&D and neutrino cross-section measurements (Ye Yuan, IHEP, Conf.) [WG3]

- J34 (PS8)
  - Targets for high-intensity muon sources
  - Muon sources for Mu2e/MUG/COMET
  - Muon beamlines for COMET and Mu2e
- J35: Search for heavy neutrinos (PS9)(talks agreed)
  - A theory talk motivating these searches (a talk on the  $\nu$  MSM model, for instance)
  - A talk on recent beam developments for SHiP (more on the accelerator side, ie, WG3- related)
  - A talk on physics reach of SHiP and possibly other experiments (DUNE near detector?).