

NuFact2016

WG3 Program

(for ???)

Chris Densham, STFC, UK

Ben Freemire, IIT, US

Jingyu Tang, IHEP, China

Summary of WG3 program (in working)

- 4 plenary talks
 - Status and prospects for multi MW accelerators (Tadashi Koseki, KEK)
 - Towards high intensity neutrino beams (Takeshi Nakadaira)
 - MICE status and reflections on novel muon/neutrino beams (Ken Long)
 - Muon collider status (Someone from Europe, Miontaneli??)
- 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)
 - High power beam operation at J-PARC: status and future (KEK, Yoichi Sato, 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 [Chris Densham]
 - RaDIATE collaboration [Chris Densham, finding the speaker?]
- Proton drivers and targetry (PS2)
 - LBNF target optimization [Chris asking Tristan Davenne/John Back]
 - High-power target operation at J-PARC (KEK, Makimura Shunsuke, shunsuke.makimura@kek.jp)
 - MOMENT target optimization (IHEP, Nikos Vassilopoulos, vassilopoulos@ihep.ac.cn)

Potential talks

- MICE (PS3) [[Waiting from response from MICE, Chris](#)]
 - MICE Construction Progress (magnets included)
 - MICE Step IV
 - Beam dynamics optimization
 - MICE Cooling Demonstration
- Neutrino Factories + Muon Collider (PS4)
 - Progress Towards a Neutrino Factory (FNAL, Milorad Popovic, popovic@fnal.gov)
 - Progress Towards a Higgs Factory (IIT, Ben Freemire, freeben@hawk.iit.edu)
 - Progress Towards a multi-TeV Muon Collider (FNAL, Alan Bross, bross@fnal.gov)
- New neutrino beamline (PS5)
 - Neutrino beams optimization for Physics [[Chris to ask John Back or Laura Fields?](#)]
 - High Energy Tau Neutrino Physics (FNAL, Dave Neuffer, neuffer@fnal.gov)
 - DUNE as a Way to NuSTORM (FNAL, Milorad Popovic, popovic@fnal.gov)

- Neutrino beamline (PS6)
 - LBNF and other FNAL neutrino beamlines [Vaia Papadimitriou, tbc]
 - ESS based neutrino superbeam (Speaker recommend by Marcos Dracos) [Jingyu]
 - Status of J-PARC neutrino beam-line operation and future upgrade plan (KEK, Ken Sakashita, kensh@post.kek.jp)
 - T2K Horn Operational Experience and Upgrade Plan to MW Beam (KEK, Tetsuro Sekiguchi, Chris to invite)
- J123 (PS7)(WG3 invites)
 - NuPIL overview (FNAL, Alan Bross, bross@fnal.gov)
 - MOMENT overview (IHEP, Jingyu Tang, tangjy@ihep.ac.cn)
 - The ERC ENUBET Project: high precision neutrino flux measurements in conventional neutrino beams (CERN, Francesco Terranova, francesco.terranova@cern.ch)
 - EMuS for MOMENT R&D and neutrino cross-section measurements (IHEP, Ye Yuan, yuan@ihep.ac.cn)

- J34 (PS8)(WG4 invites speakers)
 - Targets, Muon Source and beam line for cLFV experiments at J-
PARC (KEK, S. Mihara)
 - Targets, Muon Source and beam line for cLFV experiments at PSI
(PSI, P. Kettle, tbc)
 - MuCool at PSI (PSI, A. Papa)
- J35: Search for heavy neutrinos (PS9)(WG5 invites)
 - Are the Beta-decay anomalies related to neutrino oscillation?
(Speaker: Avelino Vicente)
 - Accelerator developments for SHiP/FCC (Speaker: Linda Stoel)
 - Prospects of sterile neutrino searches at SHiP compared to
other meson decay experiments (Speaker: WG5 looking)
 - The search for sterile neutrinos at future particle colliders
(Speaker: Oliver Fischer)