

NuFact2016

WG3 Program

(for ???)

Chris Densham, STFC, UK

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Summary of WG3 program (in working)

- 4 plenary talks
 - Status and prospects for multi MW accelerators (Steve Holmes, Tadashi Koseki,)
 - Towards high intensity neutrino beams (Takeshi Nakadaira, Vaia Papadimitriou, Alberto Marchionni)
 - 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)
 - 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 [Chris Densham]
 - RaDIATE collaboration [Chris finding the speaker]
- Proton drivers and targetry (PS2)
 - LBNF target optimization (?) [Ben asked Vaia]
 - High-power target operation at J-PARC (?) (KEK, Taku Ishida, Conf.)
 - MOMENT target optimization (Nikos, Vassilopoulos, IHEP, Conf.)
(Abstract: High power beam operation at J-PARC, Yoichi Sato)

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)
 - What is required for a Neutrino Factory – [J-P Delahaye, Rob Ryne](#)
 - [What is required for a Higgs Factory – Dan Kaplan](#)
 - What is required for a multi-TeV Muon Collider – [Mark Palmer, Ben Freemire](#)
- New neutrino beamline (PS5)
 - Neutrino beams optimization for Physics - Alberto Marchionni [[Chris in charge](#)]
 - [High Energy Tau Neutrino Physics – Dave Neuffer](#)
 - [DUNE as a Way to NuSTORM - Milorad Popovic](#)

- Neutrino beamline (PS6)
 - LBNF and other FNAL neutrino beamlines [[Ben asked Vaia](#)]
 - **ESS based neutrino superbeam** (Speaker recommend by Marcos Dracos) [[Jingyu](#)]
 - **Japanese Neutrino Beamlines** (KEK, Shunsuke Makimura, Conf)
- J123 (PS7)(WG3 invites)
 - **NuPIL overview** (Alan Bross)
 - **MOMENT overview** (Jingyu Tang)
 - **The ERC ENUBET Project: high precision neutrino flux measurements in conventional neutrino beams** (Francesco Terranova)
 - **EMuS for MOMENT R&D and neutrino cross-section measurements** (Ye Yuan, IHEP)

- J34 (PS8)(WG4 invites speakers)
 - Targets for high-intensity muon sources AND/OR Muon sources for cLFV experiments: someone from JPARC/FNAL
 - Muon beamlines for COMET and Mu2e: someone from JPARC/FNAL
 - High Intensity Muon beam at PSI
 - MuCool project (PSI/ETH Zurich)
- 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)