

## Guide Lines for Nufact 2017

- Q1: Beam/Machine/Experiment Design (WG3-4)

**Are the ultimate sensitivities really exploited with current facilities?**

**How can we improve experiments without increasing the beam power?**

**How can muon physics benefit from future neutrino facilities?**

**Could new ideas from muon physics developments turn out to be useful for future neutrino facilities?**

- Q2: Neutrino/Muon Physics (WG1-4-5)

**What overlaps exist in non-standard interactions?**

**How would these manifest in both the near term muon/precision measurements sector & in the neutrino sector?**

## WG4 Proposal for Nufact2017:

### 2 Plenary talks

- **theory (introduced since Nufact2016):** neutrino physics, muon (cLFV) physics, g-2 and EDMs connections - th. overview | **contact point with WG1 and WG5**
- **experimental overview:** precision muon physics, cLFV status and muon accelerator future development - exp. overview | **contact point with WG3**

### 7 (5 WG4 + 1 WG 1/4/5 + 1 WG 3/4) Parallel sessions

- **new (since 2016):** neutrino-muon-precision physics | **shared with WG1 and WG5**
  - neutrino oscillation and cLFV
  - sterile neutrino and cLFV
  - neutrino physics and electroweak universality
  - neutrinoless double beta decay and muon physics
  - ...
- muon cLFV
  - **new: theoretical talks also in parallel sessions**
  - **Experiments:**
    - MEG II
    - Mu3e
    - MuSiC
    - DeeMe
    - COMET
    - PRISM/PRIME
    - Mu2e
    - ...
- lepton cLFV and hadron cLFV (collider cLFV)
  - BELLE II
  - LHCb
  - NA62
  - KOTO
  - BES III
  - cLFV with ATLAS
  - cLFV with CMS
  - ...
- muon precision physics (g-2, other?)
  - g-2 at Fermilab
  - g-2 at JPARC
  - ...
- EDMs
  - nEDM at PSI
  - Charged particle EDM (JEDI collaboration)
  - ...
- muon beam and facilities | **shared with WG3**
  - **new:** HiMB project
  - **new:** muCool project

- phase rotation for low energy beam
- ...
- muon auxiliary measurements | **shared with WG3**
  - NA61
  - ...