

# Notes on closing discussion:

- **Vision:**
  - Driven by Physics goals, but sensitive to other physics avenues
    - E.g. include rare muon physics, since it brings another physics community
  - Technological synergy between muon source, NF, and MC
    - Exists
    - And should be exploited
  - This house believes muon collider should be conceived as an energy-frontier machine:
    - Should go to many TeV (~5—10 TeV)
    - Should include Higgs factory
- **Development of programme in form of international collaboration**
  - CERN SPL and FNAL Project X?
  - Asia, Europe, The Americas
- **R&D:**
  - **Most crucial R&D 'system' issues:**
    - Conceptual design and end-to-end simulation of accelerator facility
      - Transfer-line design issues not first priority – design or cost reduction?
        - Longitudinal matching may be crucial issue
    - If MERIT a success, take LHg target station to engineering level while developing fall-back solutions – goal 12 months
    - Ionisation cooling: insure success of MICE and begin to establish next series of ionisation cooling experiments leading to the 'ultimate'
    - RF technology:
      - RF power sources
      - super-conducting RF & RF in presence of magnetic field
    - Mitigation of neutrino radiation for high-energy muon collider
  - **Technological issues:**
    - Embedded RF and magnetic field production for 'ultimate' cooling

# Announcements:

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- **IDS-NF plenary:**
  - **RAL**
    - 16-17Jan08
  
- **NF-MC w/s:**
  - **One day in conjunction with LEMC w/s**
    - **US; Apr08**