110 - Baryon and Lepton Number Violating processes: Summary

• Joint between the Rare Processes (RF), Underground Facilities (UF) and Neutrino (NF) frontiers (Patrick Decowski, Andrea Pocar, Pavel Fileviez Perez, Danielle Speller, LK)

• Four overview talks:
  • Theories for B and L violation (K.S. Babu)
  • Neutrinoless double beta decay experiments (J. Gruszko)
  • Proton Decay Experiments (E. Kearns)
  • n-nbar Oscillation Experiments (L. Broussard)

  - Proton decay discovery would be monumental, and will strongly support grand unification

  - Neutron-antineutron oscillations have very high potential to probe fundamental physics to an intermediate scale, and may be related to baryon asymmetry of the universe

  - Neutrinoless double beta decay discovery would establish the Majorana nature of neutrino, and will support leptogenesis mechanism.

>50 participants
110 - Baryon and Lepton Number Violating processes: Follow up

• Only a one-hour session, no time for discussion
• Need to follow up on collaboration on white papers on these topics across frontiers
  • NF03 expects one white paper on baryon number violation searches in neutrino detectors; possible joint effort with accelerator n-nbar searches?