

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 - \bar{n} Oscillation Experiments (L. Broussard)
- >50 participants
- 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.
- K.S. Babu,
summary slide

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- 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 - \bar{n} searches?