

Tuesday Morning (8am-12)

Welcome and Introduction

- 8:00 Welcome/Logistics
- 8:10 LRP Overview / process - Gail Dodge
- 8:30 FSNN: Progress since last Long Range Plan and where are we now - Paul Sorensen
- 9:00 FSNN: Open questions for the next decade and beyond - Vincenzo Cirigliano
- 9:20 Discussion

9:30 – 10:00 Break and Discussions

Violations of Fundamental Symmetries I: Lepton Number violation

- 10:00 Theory for DBD I: sources of lepton number violation - Michael Ramsey-Musolf (remote)
- 10:20 Theory for DBD II: matrix elements - Jon Engel
- 10:40 Experiment: ton-scale program - David Hertzog
- 11:10 Experiment: beyond ton-scale - Gabriel Orebi-Gann (remote)
- 11:25 Structured and Breakout Discussions

12:00 - 1:30 pm Lunch and breakout discussion

Tuesday Afternoon (1:30pm – 6:30 pm)

Violations of Fundamental Symmetries II: Charge-Parity, Time-Reversal, and Baryon Number violation

- 1:30 CP violation and EDMs: Theory - Emanuele Mereghetti
- 1:50 Neutron EDM experiments - Brad Filippone
- 2:15 Atomic and molecular EDM experiments - Jaideep Singh
- 2:30 Hadronic Time-Reversal Violation and Baryon-Number Violation - Mike Snow
- 2:45 Structured Discussion

DEI, outreach, workforce development

- 3:00 Climate in the Nuclear community - Roxanne Springer
- 3:15 DNP Education Committee - Shelly Leshner
- 3:30 ENGAGE Programs - Diane Markoff
- 3:45 Structured Discussion

4:00 - 4:30 Break and Discussions

Needs for FS: facilities and connections

- 4:30 FSNN Facilities - Takeyasu Ito
- 4:45 Requirements of small experiments - Pieter Mumm
- 5:00 International connections - Ezio Previtalli
- 5:15 Discussion

Community input

- 5:30 – 6:30 Short talks from community whitepapers and open mic [Add time as needed]

Wednesday Morning (8am-11:45pm)

Precision Tests of the Standard Model and Searches for New Physics

- 8:00 Parity violating electron scattering program at JLab (Moller & SoLID) and BSM connections at the EIC - Kent Paschke
- 8:30 Precision beta decays: nuclei - Dan Melconian
- 8:50 Precision beta decays: neutrons - Chen-Yu Liu
- 9:10 Precision muon and meson experiments - Tim Goringe
- 9:40 Discussion

9:50-10:20 Break and Discussions

Properties of Neutrinos and Hypothetical Light Particles

- 10:20 Absolute neutrino mass measurements [+sterile nus] - Diana Parno
- 10:50 Coherent neutrino scattering [+sterile nus+other low energy nu scattering] - Kate Scholberg
- 11:10 Neutrinos in astrophysics and cosmology - Cecilia Lunardini (remote)
- 11:30 Connections to dark matter - George Fuller
- 11:45 Discussion

12:00 - 1:15 pm Lunch and breakout discussion

Wednesday Afternoon (1:15pm-6:30pm)

Needs for FS & Cross-cutting: Theory, computing, quantum, AI/ML

- 1:15 Theory - Jon Engel
- 1:30 Computing - Amy Nicholson
- 1:45 QC/QIS and FSNN - Zohreh Davoudi
- 2:00 AI / ML (to cover both theory and expt) - TBA
- 2:15 Quantum sensing and R&D for the future - Joe Formaggio
- 2:30 Discussion

Intersections and Applications

- 2:45 HEP / NP - Andre deGouvea (maybe remote)
- 3:00 FSNN at FRIB - Ronald Garcia Ruiz
- 3:15 Isotope Science and Accelerator Science - Guy Savard
- 3:30 Nuclear data - Elizabeth Ricard-McCutchan
- 3:45 Discussion

4:00 - 4:30 Break and Discussions

Community Discussion

- 4:30 Whitepaper writing assignments
- 4:45 First discussion of emerging / proposed recommendations
- 6:15 Define questions for the overnight survey
- 6:30 Adjourn / Homework

Thursday

Summary Discussion and Closeout

- 8:00 Summary and survey results
- 8:30 Breakouts and discussion of recommendations (I)

10:00-10:30 Break

- 10:30 Breakouts and discussion of recommendations (II)
- 12:00 Closing

12:00 Lunch