## NF02 Activities

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# NF02-Adjacent LOIs

- We have received O(75) NF02-adjacent LOIs
  - Actually more, but overlap in some experiments' content in different LOIs, or some are better directed elsewhere (i.e. NFI0 for a detector overview)
- Generally sorted into five categories:
  - Astrophysical/Cosmology: I I LOIs
    - Cosmo light relic bounds, X-ray searches for steriles, astrophysical neutrino flavor physics, ...
  - LBL Accelerator / Atmospheric: I5 LOIs
    - ND oscillation, ND/FD oscillation, tau neutrinos, atmospheric oscillations from acc/non-acc
  - Reactors / Radioactive Sources: 19 LOIs
    - SBL reactor, radioactive neutrino source measurements, beta spectrum measurements
  - SBL Accelerator / Decay-at-rest: 16 LOIs
    - Pretty self-explanatory...
  - Theory / Non-Vanilla-3+1 Scenarios: 15 LOIs
    - Global sterile fits, non-osc solutions to anomalies, oscillation pheno beyond simple 3+1

# NF02: Workshop Activity

 We will have our first NF02 workshop on September 25 from Ip-4:30p CDT (after DUNE collab meeting completion)

#### Goals:

- Categorize/summarize received NF02-adjacent LOIs
- Have discussion about emphasis, missed efforts/opportunities/connections
- Start narrative-building process based on talks and feedback
- Five speakers, one for each category
  - Each speaker should cite all LOIs relevant to each category
  - 15 min for speaker to present a summary based on this premise
  - 10 min for feedback from audience and conveners
- End with 45 minute speaker panel Q&A and discussion
  - This will include discussion of White paper related Qs, and the idea of a 'broad' NF02-wide whitepaper, besides smaller-scope White papers.

### NF02: CPM Prep

- Not sure how much time we will have for NF02 organization and discussion at CPM.
- Possible joint sessions relevant to NF02
  - 108: "Light dark matter: keV to GeV" obvious relevance here; notified Kate of interest
  - 127: "Searches for different dark particles" obvious relevance here; notified Kate of interest
  - 97: "Neutrinos and astroparticles" neutrino flavor physics relevant to NF02
  - 77: "Bridging the gap between axion and WIMP experiments with quantum sensors" this crosses the eV-keV scale, so NF02 input may be valuable, but seems very focused on QIS...
  - CarloG mentioned a possible missing joint topic Cosmological bounds and fundamental neutrino properties — this would interest NF02 as well.

# From LOIs to Whitepapers

- We haven't yet discussed how / in what way we plan to encourage the production of NF02-adjacent white papers
  - Could urge cross-NF white paper writing (NF01-NF02-NF03; NF07-NF09-NF02)
  - Could urge NF02 sub-topic white paper writing (DAR whitepaper, reactor whitepaper, non-vanilla whitepaper, etc.)
  - Could urge no particular whitepapers and let them develop organically.
- Hope to discuss this in more detail prior to and after the September 25 NF02 workshop
  - Also will discuss this at Sep 25 workshop.

That's all.