

Nu1 - Organizational Issues

- Talks

- Please post your talks at beginning of session so that we can refer to them during session and discussions. This is a “*workshop*”.
- Talk times include *questions for clarification but not for discussion*.

- Discussion

- Time for discussion reserved at end of session.
- Note takers will capture discussion and important issues. Will make available after workshop.
- Conveners will try to understand metrics for new experiments and proposals for the context of subgroup report.
- Discussion will/may generate homework for experimental groups. Follow up by ANL workshop.

- Subgroup Report

- Will draft report outline following this workshop. There will be opportunities for community comments and input through April-June.
- Will ask summary speakers + expert “volunteers” for written contributions.

- Community Input

- Email conveners with any questions and concerns
 - Mary Bishai <mbishai@bnl.gov>
 - Karsten Heeger <heeger@wisc.edu>
 - Patrick Huber <pahuber@vt.edu>

Metrics for Discussion of Neutrino Experiments (I)

- **Science goals**
 - 1) discovery potential
 - 2) physics topics and parameter sensitivity
 - 3) is science unique?
 - 4) are there other competing experiments?
 - 5) complementarity with other experiments?
- **R&D requirements**
 - a) ready for proposal or construction
 - b) limited R&D sufficient (1-2 years)
 - c) long-term R&D required (> 2 years)
 - d) synergies with other experiments?
- **Cost categories** (indicate separately categories for US contribution and total project cost, no precise estimates needed)
 - (I) $< \$5\text{M}$ (\$) - *minor construction (below threshold for project reporting)*
 - (II) $< \$50\text{M}$ (\$) - *e.g. Daya Bay-like, less than LBNE underground option*
 - (III) $\$50\text{-}300\text{M}$ (\\$\\$) - *e.g. NOvA, mu2e, IceCube-size*
 - (IV) $> \$300\text{M}$ (\\$\\$\\$) - *e.g. LBNE-I*
 - (V) $> \$1\text{B}$ (\\$\\$\\$\\$) - *e.g. LBNE-II, NuFact, beta beams*

Metrics for Discussion of Neutrino Experiments (II)

- **Synergies**
 - 1) with other experiments?
 - 2) with other fields and frontiers?
- **US collaborations and leadership**
 - a) US leadership?
 - b) US based experiment/facility?
 - c) opportunity for international engagement?
 - d) continued international collaboration?
- **Timeline and projected schedule**
 - a) R&D timeline
 - b) construction time
 - c) data taking and science program duration