

Welcome to SAC Neutrino Physics WG Discussion

Convened by L. Suter, Z. Pavlovic, J. Zennamo

Brief working group charge

Considering the particular field of your working group, facilitate discussion and seek input from working group participants in answering the following questions:

- What are the interests of the Fermilab scientists for the decade or so following 2026?
- How do we give our input to both the US community planning and the European Strategy Group?
- What is the post-retreat plan for working with US, European, and other partners to give our input?

Considerations in answering these questions:

- Build on the written report from the preceding retreat
- Consider both activities at Fermilab, and activities elsewhere in which Fermilab should be involved.
- Please be optimistic, but realistic, in your assessment of the likely scale of available funding.
- Please outline, in broad terms, any developments in terms of facility construction/upgrade, R&D, new physics knowledge decision points etc. that your suggested activity will require.
- Consider everything necessary to perform the experiment or other activity proposed. For example, if you suggest an experiment, you should also consider the accelerator, computing, and so on required to perform the experiment.
- Consider how we should approach coordinating with your community within the US, and the European community to provide input into the EPPSU process (CERN/European strategic planning update, which expects scientific input later this calendar year.)
 - This will need the involvement of the wider US community
 - Exactly how this works may be different for different working groups

Agenda and Format

Neutrino Experiments in 2026 30' - Peter Shanahan

10' discussion

Neutrino Theory in 2026 - Stephen Parke

10' discussion

Beyond LBNF 20' - Alan Bross

Future LBNF 15' - Bob Zwaska

10' discussion

We note the limited discussion time, we will have additional sessions dedicated to discussion

Please note down your thoughts and email them to us

We will use these to help sculpt the agenda for the next meeting and the final document

In addition if you have an idea that you would like to discuss with the group let us know and we'll schedule you for a talk at the next meeting

All Scientists Retreat on April 26