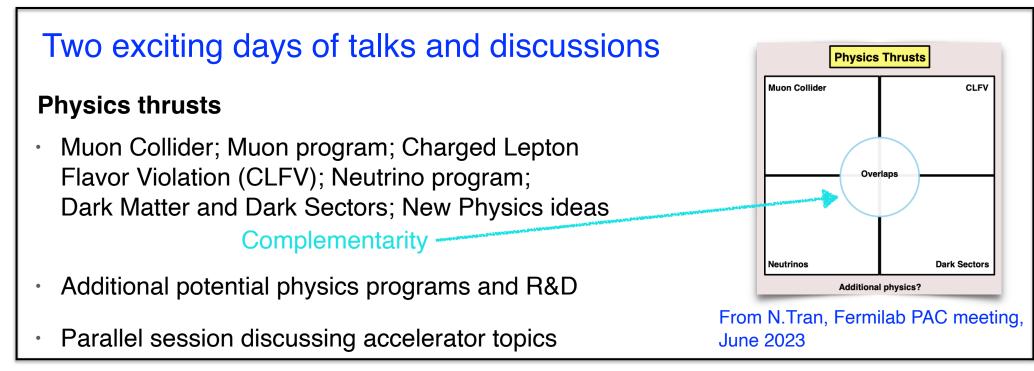
This meeting and next steps



Next steps:

<u>Next couple days</u> inputs on the P5 questions

<u>Next few weeks</u> brief report on the findings of this workshop



Questions

For the next couple of days:

We discussed several experiments:

- What is the role of ACE beams enabling the several experiments?
- · Is the experiment uniquely enabled by the ACE upgrades?
- · Can it be done somewhere else, or uniquely at Fermilab?
- What particular accelerator components or capabilities are necessary?
 - Muon Collider
 - Muon Collider Aux experiments
 - Neutrino Factory, etc
 - Future short baseline
 - Mu2e-II
 - AMF
 - PIP-II BD experiments
 - Other neutrino experiments
 - DarkQuest
 - · KPIPE

- Fermini and LongQuest
- REDTOP
- Muon beam dump
- M3
- Muonium physics
- · DAMSA
- Nuclear reactor
- Spin program
- Muon EDM

More on the longer time scale

This was the first in a series of workshops to co-design physics case and technical design.

Continue development of ACE towards CD-0 in ~2 year timescale

Goals:

In view of the booster replacement study (report <u>here</u>), the Snowmass process (report <u>here</u>), the Proton Intensity Upgrade Central Design Group (PIU-CDG) <u>report</u>,

- re-evaluate ACE Science program and design
- assemble community input and understand physics thrusts' complementarity and science priorities

Thanks!

Thanks to my co-organizers



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