

Government Relations Update

UAEC Meeting, January 2025

David Yu

1/23/25



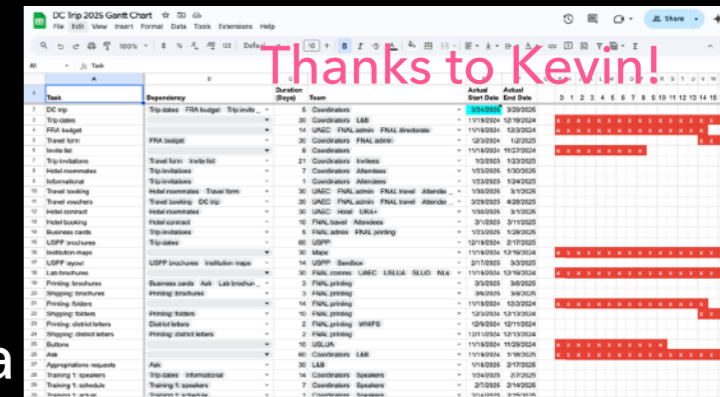
HEP ANNUAL ADVOCACY TRIP, AKA DC TRIP

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- ▶ Team of ~70 US HEP members travel to DC for one week of visits w/Congress, agencies, and executive offices.
- ▶ Annual effort organized by FNAL UAEC, SLAC Users Organization, and US LHC Users association.
 - ▶ With help from APS DPF and participation from ANL, BNL, and LBNL
- ▶ Most of the trip organization runs through Fermilab:
 - ▶ Recent organizers: Adam Lyon and Kevin Pedro
 - ▶ **Financial support from FRA**, logistical support from Travel, Procurement, Communications, ...



- ▶ **Trip planning is in full swing!**
 - ▶ Interest survey circulated last December (n.b. all UEC members are invited)
 - ▶ usparticlephysics.org content group finalizing brochures
- ▶ **Key issue today: budget from FermiForward**
 - ▶ The budget is prerequisite for almost everything
 - ▶ Exception: content preparation, e.g., procurement data
 - ▶ Last fall, Kevin Pedro prepared a paragraph summarizing our needs for the transition team, incl. **budget request of \$70K.**
 - ▶ Budget determines **how many people** we can invite.
 - ▶ Budget also drives timelines:
 - ▶ Waiting to set trip dates => cannot open sign-ups!
 - ▶ Funding for trip materials (FNAL rulers, brochures, folders), need to make purchases before ~early February
- ▶ **Other needs:**
 - ▶ **Procurement data** for district-specific letters
 - ▶ Contact travel/URA to prepare for **hotel and flight bookings**



- ▶ Following Leland's December update, the trip will be in **April 2025**
 - ▶ Likely dates: weeks starting April 7 or 21.
 - ▶ April 14 = US FCC annual meeting at FNAL+ANL.
 - ▶ April 7 = CMS upgrade week, attosecond school
 - ▶ Any other conflicts?



- ▶ Reminder: usparticlephysics.org hosts a lot of material (The Packet for DC trip)
- ▶ Monthly content preparation group meetings: still focused on “Progress and Priorities” summary brochure
 - ▶ [2024 brochure](#)
 - ▶ [2025 draft text](#)
- ▶ New for 2025: [Future Colliders](#)
- ▶ Please have a look, and let us know if you have suggestions!

Text to images



Building for Discovery
Strategic Plan for U.S. Particle Physics in the Global Context
usparticlephysics.org

The P5 Report provides the long-term strategy and priorities for U.S. investments in particle physics.

The top three priorities in 2023

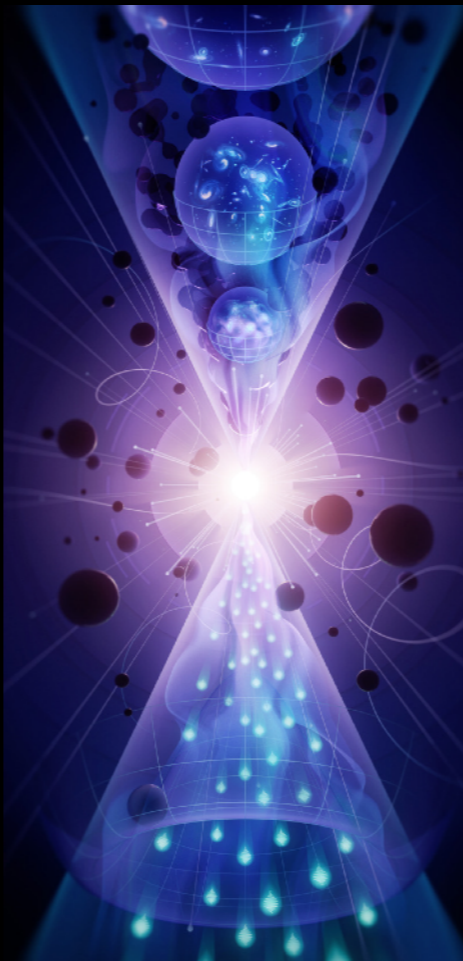
Strengthen support for particle physics research at universities and national laboratories, which includes data analysis, R&D, design of new experiments, and a vibrant theory program. As emphasized in the P5 Report, these activities are essential for the success of the field. They are crucial for extracting scientific knowledge from all the great new data, developing new methods and ideas, maintaining U.S. leadership, and training the next generation of scientists and innovators.

Advance the High-Luminosity Large Hadron Collider (HL-LHC) accelerator and ATLAS and CMS detector upgrade projects on schedule, continuing the highly successful LHC program and bilateral partnership with CERN.

Advance the Long-Baseline Neutrino Facility (LBNF), Deep Underground Neutrino Experiment (DUNE), and Proton Improvement Plan-II (PIP-II), working with international partners on the design, prototypes, initial site construction, and long-lead procurements.

These carefully chosen investments will enable a steady stream of exciting new results for many years to come and will maintain U.S. leadership in key areas.

Particle physics is both global and local. Scientists, engineers, and technicians at 190 universities, institutes, and laboratories throughout the U.S. are working in partnership with their international colleagues to build high-tech tools and components, conduct scientific research, and train and educate the next generation of innovators. Valuing equity, diversity, and inclusion, the field is committed to increasing participation of underrepresented groups. Particle physics activities in the U.S. attract some of the best scientists from around the world.



Beyond Higgs Factory

Wakefield Collider

- Particle acceleration rates far higher than conventional accelerators
- R&D synergistic with development of compact light sources for cargo scanning, material science and medical sciences

Muon Collider

- Uses existing infrastructure at FermiLab, builds on current investments in DUNE
- Magnet R&D synergistic with FES/ Fusion, medical devices
- Cooled muons will also help...

Future Circular Collider Upgrade (FCC-hh)

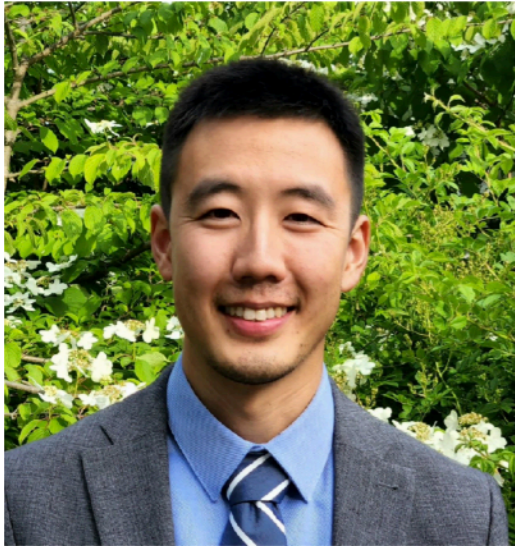
- Follow-on collider to FCC-ee that uses the same physical infrastructure
- Magnet R&D synergistic with FES/ Fusion, medical devices

A 10 TeV parton-center-of-momentum collider will provide the most comprehensive increase in discovery potential beyond a Higgs Factory. This next generation of particle collider will provide access to hidden sectors and enable direct production of new particles, but requires aggressive investment today in accelerator and detector R&D. The US and international particle physics community is investigating three options based on collision of three different types of particles.

Prepared by usparticlephysics.org

- ▶ Sign-ups:
 - ▶ Will announce as soon as trip date is set and #(participants) is known.
- ▶ Trainings
 - ▶ TBD, after sign-ups; organized jointly between all stakeholders.
- ▶ WHIPS
 - ▶ Touched based w/developers (Justin Vasel) for 2025 updates, mostly minor QOL stuff
- ▶ Flights and hotels
- ▶ District letter preparation
 - ▶ Procurement data from Fermilab (+other labs?), intern data from DOE/NSF

About the Organizers in 2025



David Yu, [Fermilab UAEC](#)

Government Relations Chair,
Assistant Prof., SUNY Buffalo on
CMS

UAEC Gov. Rel. Deputies: Tova
Holmes, Luigi Marchese, Ali Eren
Simsek



Kiley (me), [USLUA](#)

Government Relations Chair,
Postdoc at Princeton on CMS

USLUA Government Relations Team:
Karri Di Petrillo, Joe Haley, Lauren Larson,
Matt LeBlanc, Harvey Newman, David
Saltzberg, John Stupak, Caterina Vernieri



Kelly Stifter, [SLUO](#)

Government Relations Chair,
Associate Scientist at SLAC in
low-mass dark matter experiment

Other SLUO organizers: River Robles,
Toby Satterthwaite



Vetri Velan

Postdoc at Lawrence Berkeley
National Lab in dark matter (LZ,
TESSERACT)