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News

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LLPs at FCC-ee Working Meeting

May 2, 2024

Joint USA-CERN Statement

Dear Colleagues,

Yesterday afternoon [April 26], a joint “*Statement of Intent between the United States of America and the European Organization for Nuclear Research (CERN) concerning Future Planning for Large Research Infrastructure Facilities, Advanced Scientific Computing, and Open Science*” was signed at The White House. Among other topics, the SOI expresses an intention by the United States to collaborate on FCC-ee, should the CERN Member States determine the project feasible:

"Should the CERN Member States determine the FCC-ee is likely to be CERN's next world-leading research facility following the high-luminosity Large Hadron Collider, the United States intends to collaborate on its construction and physics exploitation, subject to appropriate domestic approvals."

The full statement is posted on the state department web site at:

<https://www.state.gov/joint-statement-of-intent-between-the-united-states-of-america-and-the-european-organization-for-nuclear-research-concerning-future-planning-for-large-research-infrastructure-facilities-advanced-scie/>

This is a thrilling development on the way to the realisation of the project.

Your contribution to the FCC Feasibility Study final report becomes all the more important - and rewarding !

Looking forward to it,

With best wishes,

Patrick and Christophe.

Updating the European Strategy for Particle Physics

Is happening now

- On 21 March 2024, the CERN Council decided to launch the process for updating the European Strategy for Particle Physics.
- **The deadline for submitting written input has been set for 31 March 2025, with a view to concluding the European Strategy update process in June 2026.**
 - **This includes also the report from the ECFA Higgs/EW/Top factory study.**
- The process will be managed by the Strategy Secretariat, which the Council will establish in June 2024, and more information, together with the call for input, will be issued by the Secretariat in due course.
- The input that was submitted for the 2020 Strategy update can be consulted here:
 - <https://indico.cern.ch/event/765096/contributions/>

Next steps

Not final

- List of topics to be included in the final report
 - Assessment of focus topics expectations (including this one!)
 - <https://arxiv.org/abs/2401.07564>
 - Together with new results from ongoing studies
- Preliminary list presented mid May, finalized by mid June (timed with a conveners meeting at CERN)
- Deadline for new results: the third ECFA Higgs factories workshop in Paris in October
 - <https://indico.in2p3.fr/event/32629/overview>
 - Drafts of the written summaries for all results should also be available for the report then

From Rebeca's slides here: <https://indico.cern.ch/event/1392179/timetable/?view=standard>

Recent and Upcoming Events

- **ECFA focus topic: LLPs - round table**, April 29, 2024: <https://indico.cern.ch/event/1392179/>
Recording available! Very relevant! Check out the slides!
- **Today:** Talk on IDEA vs CLD design from Mark Larson
- **Next FCC LLP meeting** likely May 16th at 13h <https://indico.cern.ch/event/1412289/>
 - Space for one more contribution
- FCC week, San Francisco, CA (US), June 10-14, 2024 <https://indico.cern.ch/event/1298458/registrations/95765/>
 - Registration open, Abstracts were due April 15
- 3rd ECFA Higgs factories workshop, Paris, Oct 9-11 <https://indico.in2p3.fr/event/32629/overview>
- 2nd FCC Italy-France Workshop, Venice, Nov 4-6, 2024
 - <https://agenda.infn.it/event/37960/>
- FCC FullSim meetings: <https://indico.cern.ch/category/16938/>
- FCCAnalyses meetings: <https://indico.cern.ch/category/17971/>
- ECFA seminars/ workshops of interest: <https://indico.cern.ch/category/14055/>

LLP FCC Meetings

- Please let me know when you would like to present your work, even (especially!) if it is in progress. The aim is to have a working meeting, where all of us working on LLPs at the FCC can discuss physics and even technical issues
- I'll call meetings when people have something to present. Don't be shy!