



FUTURE
CIRCULAR
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News

Juliette Alimena (DESY)

LLPs at FCC-ee Working Meeting

June 6, 2024

FCC Report

Midterm report

- [Available](#) on new CDS to all CERN users

Final Feasibility Study Report

- First draft to be ready by the end of the year (for the SPC)
- Draft v0 for internal PED review by 30th of September!
- **Analysis note drafts ready by early September**

The Final Report will be an official document, public and submitted to the Strategy

Aligned with ECFA deadlines for moving towards the update of the **European Strategy report**:

- Deadline for new results is 3rd ECFA Higgs factories workshop in Paris, Oct 9-11
<https://indico.in2p3.fr/event/32629/overview>

FCC Notes

- “Common Sense” Policy on publication of FCC related results:
 - If it includes MC data and tools and statistics from the FCC-ee. And it has FCC-ee in the title (!)
 - Have a detailed FCC Note posted as well as the draft paper version in CDS, and a presentation (or more) at the Physics Performance meeting
 - P&P conveners will define reviewers for a speedy decision on submission
 - Several Notes still hanging there since a few months...would like to get them published

Talk Opportunity

We have an invitation for **a plenary talk** from the Hyper-Kamiokande experiment at the 9th edition of the International Workshop on Baryon and Lepton Number Violation (BLV2024), which will be organized by the Institute for Astroparticle Physics at the Karlsruhe Institute of Technology (KIT), and take place as an **in-person event** in Karlsruhe on October 8-11, 2024. For details, please see <https://indico.scc.kit.edu/event/4294/>.

The idea is to get a talk about FCC, *with particular emphasis on the search for proton decay and other baryon number violating processes.*

The talk is listed here:

<https://fcc-ee-conference.web.cern.ch/database/conference/987/presentation/1102/>

Recent and Upcoming Events

- **Today:**
 - Update from Tom Critchley (U Geneva) about the DNN in the electron HNL channel <https://indico.cern.ch/event/1417190/>
 - First presentation from Richards González (U Edinburgh): Feasibility studies for dark photon production in Higgs decays at the FCC-ee
- **FCC week**, San Francisco, CA (US), June 10-14, 2024 <https://indico.cern.ch/event/1298458/registrations/95765/>
 - No LLP meeting next week, follow FCC week instead (search for “BSM” or “HNL” in the agenda..)!
- **ICHEP**, Prague, July 18-24 <https://indico.cern.ch/event/1291157/>
 - Many FCC talks and posters, including “BSM Physics and HNLs at the FCC” (Nicolo Valle)
- **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/>