

Concluding Remarks

Some General Messages from this Workshop

Next Steps for FCC(-France)

Thanks

Some General Messages from this Workshop

Excellent quality of the talks, thanks to all speakers !

The French FCC community is in an «Exploration» phase (2019-2021)

- The IN2P3 and IRFU physicists working or starting to work on FCC are getting numerous. Sharing time with Run3/HL-LHC is a challenge but also an opportunity to increase our knowledge.
- Expand the current effort to build strong links with the theoretical community which is motivated and very needed for the physics which can be achieved at FCC-ee
- Further refine the detector requirements, mostly through simulation, fast and detailed.
→ need to get more involved in the FCC software effort
- Work on the conceptual development of detectors, along the CLD & IDEA models but also beyond, in particular since the project would benefit a lot from 4 detectors.

The Round table was successful and constructive

- Build on acquired expertise. From ILC R&D, develop a few strong lines of R&D
- Try to develop new ideas and also work on generic R&D at this stage
- Collaborate closely between all the ee projects

The Future may arrive faster than we think !

- The «Focus & Consolidation» phases are around the corner: (~2022)
- We may have to soon focus on only a few options to get a strong French contribution
- The size of the community will shape the French contributions: how many (sub-)detectors ?
- Proto experiments/collaborations are expected by 2025/26

Next Steps for FCC(-France)

- **European Strategy** was not made public at last council in March
 - Public strategy endorsement meeting in May has been cancelled (COVID-19)
 - Strategy could be made public, if decided at the end of May, in June or September
- **Snowmass** effort begins in the USA
 - US DOE commitment to FCC was a very important input to ESPP.
 - Snowmass is a good opportunity to put forward new efforts for FCC (FCC France is well represented with 3/14 FCC contact persons for Snowmass)
- **Approval of the FCC-Innovation Study**
 - strong motivation to deepen FCC physics and detector studies right away.
- **FCC-IS kick-off meeting @ CERN 9-13 November 2020**
- **4th FCC Physics workshop @ CERN 9-13 November 2020**
 - For FCC-ee emphasis on:
 - precision measurements and calculations.
 - BSM aspects of precision, flavour (τ, b), and direct search program
 - flavour program
 - detector requirements from benchmark studies, and new ideas
- **Next FCC-France workshop @ Annecy, December or January 2021**
 - will cover Accelerator, Detector and Physics (exp&theory)
- **FCC General Meeting @ Paris, April 2021 (following Brussels in 2019)**

Thanks for Your Participation

- 138 Registered participants, thank you to all participants !
- Good attendance to all eight sessions (from 50 to 90, stable during the sessions)
- Questions and Round Table were useful to build a link while we are far away from each other
- We hope to see you all soon at the next FCC events, including at the next FCC France workshop in Annecy
- Thank you to all speakers, chair and round table members for their nice presentations, and ideas.
- Thanks to IN2P3/CNRS and IRFU/CEA for their support
- Special thanks to our Foreign colleagues for enriching the workshop
- Have a safe trip around your home !