

# FCC-hh Studies for the next European Strategy: kickoff meeting

3 September 2024  
Europe/Zurich timezone

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M.L. Mangano, C. Grojean, M. McCullough, M. Selvaggi

<https://indico.cern.ch/event/1439072/>

## Goals and scope of this effort

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- **Review and complete existing material in preparation for the discussions at the 2025 ESPP**
  - **update reach for key processes (eg Higgs measurements)**
  - **focus on interplay between FCC-ee and FCC-hh in finding and deciphering signals of new physics** (FCC-hh potential to discover the microscopic origin of SM deviations observed in precision measurements at FCC-ee), **mapping the FCC-hh discovery potential beyond the sensitivity of FCC-ee** (room for further discovery at FCC-hh following FCC-ee)
  - **review detector performance assumptions, and discuss opportunities for dedicated expts**

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Addressing here the stand-alone potential of specific energy/luminosity FCC-hh scenarios aims at providing expert answers to questions that may be raised during the Strategy process, eg in the context of “plan-B” discussions. The goal is NOT to push for an alternative “plan A”

## Structure of this meeting and follow ups

- **Present new benchmark FCC-hh operating scenarios** (F.Zimmermann)
- **Review recent material addressing the goals of the study** (MLM and M.Selvaggi)
- **Short presentations on ongoing or proposed work by mtg participants** (10'+5')
- **Final discussion:**
  - **more comments/suggestions by participants**
  - **WG organization and dates/format of next mtgs** (1/month)
  - **Report for submission to ESPP2025** (March 31 deadline)

To join the mailing list dedicated to these studies and be kept informed about future meetings, register at <http://simba3.web.cern.ch/simba3/SelfSubscription.aspx?groupName=FCC-PED-hh-espp25>