

FCC Physics Performance News

Nov 14, 2022

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NEXT MEETING DECEMBER 12 FOCUSED ON PREVIEW FOR KRAKOW
NNEXT MEETING JANUARY 16?

Events of interest

- **FCC France-Italy Workshop in Lyon**, 21-23 November
 - <https://indico.in2p3.fr/event/27968/timetable/?view=standard>
 - In person meeting
- **Higgs Working meeting**
 - date to be confirmed, first week of December
- **Regular LLP Meeting**, Thursday's 13:00
- **FCC physics workshop**, in Krakow, 23-27 Jan 2023, in person
<https://indico.cern.ch/event/1176398/>
 - *First results for mid-term review are expected to be reported*
- **June 2023 FCC week**: June 5-9, 2023, London
- **ECFA seminars / workshops of interest** : new calendar out soon.
<https://indico.cern.ch/category/14055/>
- WG2 plans for:
 - 2nd Generator workshop end of February
 - 2nd Reconstruction/Analysis tools workshop in Spring

How to get the results of the case studies public

- The whole process is still under discussion with PED management, however few basic points here.
- Regular presentations in Physics working meetings are necessary
 - especially in the initial stages, it can be very helpful to make sure the latest tools/datasets etc are being used
- Once the analysis is mature:
 - presentation at Physics Performance meeting
 - a documentation under the form of an internal note
 - presence of the analysis code in the PhysPerf github
- Likely there will be the creation of some “Editorial Board” to follow closely the authors, but in the initial stages these could be the conveners.

Preparation of the presentation to the SPC

- The SPC and the DG have asked specific questions to be answered during the talk on December 13 (that will be also given already on Dec 5 at the FCC-IS plenary)
- In particular, this is the question for us (and Phys Programme):
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- **Motivation for the sequence of FCC-ee energies and luminosities?**
 - ◆ **Is there anything mandatory that would be missed with five times less luminosities ?**
 - Luminosity numbers are considered “ambitious”
 - Current context may justify to reduce the power of the machine

The conveners are discussing the responses to provide to the management by the end of this week, but anyone here is welcome to think about it and let us know if they can have suggestions.

Agenda of today

16:00 → 16:10 **News**

Speakers: Emmanuel Francois Perez (CERN), Patrizia Azzi (INFN Padova (IT))

🕒 10m 

16:10 → 17:15 **Timing: Requirements on precise timing measurements**

16:10 **Requirements from the EPOL group**

Speaker: Guy Wilkinson (University of Oxford (GB))

🕒 15m 

16:25 **Usage of timing for flavour tagging**

Speaker: Michele Selvaggi (CERN)

🕒 15m 

16:40 **Use cases from the flavours group**


Speakers: Dr Alberto Lusiani (Scuola Normale Superiore and INFN, sezione di Pisa), Jernej Fesel Kamenik (Jozef Stefan Institute (SI)), Stephane Monteil (Université Clermont Auvergne (FR))

🕒 15m 

16:55 **Uses cases from BSM (tbc)**

Speakers: Giacomo Polesello (INFN, Sezione di Pavia (IT)), Rebeca Gonzalez Suarez (Uppsala University (SE))

🕒 10m 

 PP meeting - 14_12...

17:15 → 17:35 **B to tau nu: towards finalisation**

Speaker: Xunwu Zuo (KIT - Karlsruhe Institute of Technology (DE))

🕒 20m 

17:35 → 17:50 **Validation of early pre_fall2022 MC samples**

Speakers: Jan Eysermans (Massachusetts Inst. of Technology (US)), Michele Selvaggi (CERN), Tristan Miralles (Université Clermont Auvergne (FR))

🕒 15m 