

FCC@LPNHE meeting

Luc

- Overall news
 - European strategy 'news' and timescale All
 - Feedback from GT01 final discussion All
- Preparation of the FCC@LPNHE half-day Luc
- Preparation for the June Conseil Scientifique Luc
- FCC-France feedback Greg
- Manpower (Thesis, ITN) Luc, Bogdan, Greg
- Potential physics studies Bogdan, Luc
- Budget, Mailing lists Luc
- AOB

ESG 'News' & feedback

- ESG timescale
 - 20-25 January Drafting session -> No information out officially
 - 16-20 March CERN Council discussion on document
 - > Expect some feedback in March
- What can be expected?
 - Recommendation that CERN focuses on new Circular Collider infrastructure (100km) -> TDR + start digging in 5-6 yrs (next ESPP update)
 - Hope explicit recommendation of FCC-ee (or FCC-INT or FCC-ee-hh-ep) as part of TDR
 - Recommendation on R&D for High Field magnets
- Also some hints at GT01 Prospectives from IN2P3 DAS

FCC@LPNHE half-day meeting: Inputs

- Friday April 24th, 2pm-5pm
- Goal
 - April: Already some feedback from ESG available and before FCC-France in May (see Greg later)
 - Present to the full Lab
 - The various machines and status,
 - The fields of physics where LPNHE has expertise & interests (H, Flavor,...)
 - The ongoing detector options where LPNHE has expertise & interests (Silicon for calorimetry and/or tracking)
 - Role of information + trigger potential involvements

FCC@LPNHE half-day meeting: Agenda (TBD)

- Overview
 - Goal of the meeting Luc 10'
 - General situation & machines (Europe & Asia) Luc 15'
 - The FCC project Luc 15'
 - FCC in France Greg 15'
- Physics
 - Physics yields at FCC-ee & hh & eh Alain 40'
- Detectors
 - Detectors general scheme Luc 15'
 - Detectors/R&D activities at labo
 - Si for tracking/vertexing G. Calderini 15'
 - R&D for W/Si calorimetry R. Cornat 15'
- Discussion & Next steps 40'

Conseil Scientifique

- Proposal by Marco to scrutinize FCC at next CS in June
- What is needed?
 - Document describing
 - The project
 - The people involved
 - The directions for physics involvement
 - The directions for detectors R&D
 - Is it enough?
 - Do we need to be specific about physics & detectors activities?
 - Do we need to be specific about manpower (physicists & ITA)?
 - To be iterated with Marco

Manpower

- Keep looking at persons potentially interested at LPNHE
 - Baseline from Collider expts (ATLAS, LHCb) but not only
 - NB people are 100% busy with upgrades for HL-LHC
 - Other labs have the same issue but start also to get organized
 - Ongoing
 - April LPNHE-wide meeting can attract more people
- PhD student? **Most likely for next year**
 - Already proposal ATLAS prospects HH to $b\bar{b} \gamma\gamma$
 - Idea to be discussed
 - Thesis with ATLAS part + part oriented to FCC-ee physics
 - Luc+Bogdan co-supervisors?

Greg

- Training Networks (ITN) Call: H2020-MSCA-ITN-2020

Greg₆

Potential physics studies

- α_s measurement at FCC-ee Bogdan
- In parallel, basic studies
 - eg Z to bb to master the software chain
 - Full simulation wrt acceptance issues,...
- In particular
 - High granularity calorimetry still essential if $\sqrt{s} < 500 \text{ GeV}$?
- Other ideas?

Budget for 2020

- Agreed by Marco to have FCC budget
 - 7k€ agreed
- As long as non official lab project, money from Direction line
 - ie does not appear in list when asking for mission
 - For any request, please ask me
- If project approved by CS in June
 - Then official project line

Mailing lists

- Regular meetings every 1-2 months
 - FCC-ee Physics (P. Azzi)
 - fcc-ee-DesignStudy@cern.ch
 - FCC-ee Detector Design Meeting WG11 (M. Dam)
 - fcc-ee-DesignStudy@cern.ch
 - FCC-Software devt for FCC expts (G. Ganis, C. Helsens)
 - fcc-experiments-sw-dev@cern.ch
- More meetins & mailing lists at
 - [Home](#) » [Projects](#) » [FCC](#)
 - <https://indico.cern.ch/category/5153/>

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