

Introduction

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News

We will *not* know ESPP recommendations now.

more likely to be end of May or June

Budapest meeting is cancelled. The recommendations will be delayed because of the sanitary crisis

However we know that

- FCC study will be strongly supported.
 - complementarity of **Higgs Factory** and ILC has been noted
 - likely CLIC accelerator R&D will be maintained as 'plan B'.
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- We know about acceptance of implementation design study (FCC-IS), see next slides
 - We will know about ITNs end of May or June
 - We expect major FCC event in fall 2020 (kick off FCC-IS + FCCee 9-13 November)

→ We have invited Jorgen D'Hondt to hear about the latest news from ECFA and ESPP in the Introductory session

Future Circular Collider Innovation Study FCC-IS

- Project submitted in the frame of the H2020 Research Infrastructure Development Call on 12 November 2019
- Co-financing for planned FCC activities relation to the project preparation phase between 2020 and 2024
- Proposal accepted in March 2020, as the only physics project in this call.



→ We have invited Michael Benedikt to hear about the latest news from FCC

Studies with fast MC (Delphes)

All documentation can be found at

<http://hep-fcc.github.io/FCCSW/>

Software easy to use, fast MC based on Delphes

Card file easy to modify and regenerate events

Studies can be done for the physics topics we want to study

→ New people are starting to use it

- Software quite easy to install, understand, edit and run
- Quite easy to implement and plot simple selections and quantities; not sure how easy would be to implement in the RDataFrame-based framework more complicated logic of selection

Dialog

- Possibilité de demander des missions pour les collègues engagés ou s'engageant à au moins 10% de FTE d'ici Septembre 2020.
- Mieux vas ne pas demander pour ceux qui promettent pour 2021 (ils iront aux meetings FCC sur le budget de leur équipe principale).
- Possibilité de demander une gratification de stage (3 ou 4 mois = 1800 ou 2400 E) pour stagiaire M1 ou M2
- Pas de demande de poste cette année
- Pas de demande d'argent R&D cette année
- Possibilité de proposer des thèses conjointes LHC-FCC

Tour de Table

IRFU	Saclay
CPPM	Marseille
IJCLab	Orsay
IPHC	Strasbourg
IP2I	Lyon
LAPP	Annecy
LPC	Clermont
LLR	Palaiseau
LPNHE	Paris
LPSC	Grenoble
L2IT	Toulouse

Next FCC- France workshops

1) FCC-France devoted to physics & detectors on 14-15 May, (1.5 day)

2) FCC- physics-detectors-accelerator in Decembre or January in Annecy (2.5 days).

Sessions for the May workshop :

Introduction, General, Machine

Detectors/Software : CLD, IDEA, Software, ILC-detectors

Higgs : Physics and detector constraints

EW Physics @ Z / WW & QCD: Physics and detector constraints

Heavy Flavour & Taus @ Z : Physics and detector constraints

ttbar : Physics and detector constraints

hh-100 TeV : Physics

talks	Confirmed/not yet
1) Introduction and goals	Vacavant
2) status and plans of the FCC project	Benedikt
3) ECFA Objectives for the future colliders detectors and physics studies	D'Hondt
Global discussion on the first 3 presentations	ALL
4) Vision talk ? or ILC-250 potential beyond FCC ? or FCC-Accelerator in France ? Status of CEPC ?	
5) Brief Summary of FCC-Phys activities in the French Labs	Aleksan/Bernardi on behalf off fcc-contacts
1) Global concepts for an FCC detector, the IDEA & CLD examples	Grancagnolo
2) Calorimetry for FCC-ee	Boudry
3) Vertexing and tracking for FCC-ee	Titov
4) Particle-ID for FCC-ee	Wilkinson
5) Status of the FCC Software	Ganis
1) Model independent Higgs boson coupling determination	Marchiori
2) Higgs boson self-coupling measurements and extended Higgs boson sector	Salerno
3) EW theory needs for Higgs physics at FCC	Heinemeyer
4) Jets measurements requirements for Higgs boson physics at FCC (ee)	Grenier
5) Vertex requirements for Higgs boson physics at an e+e- Collider	Winter
1) EWPO measurement and impact on SM constraints / BSM	Cacciapaglia
2) Luminosity measurement / Precise measurement of the centre of mass energy	Perez
3) Systematics on EWPO measurements / line-shape + AFB leptonic/Sin2thetaWeff	Di Ciaccio
4) Systematics on R_b R_c	Liang
5) W mass and $\Gamma(W)$ measurements	Locci
6) α_s (MZ and MW) / other QCD measurements	D'Enteria
1) Overview on HF physics and related BSM (theo)	Becirevic
2) b,c and light quark-flavour tagging for V_{cb} and V_{cs} at WW. Vertexing perf. For...	Monteil
3) Exclusive reconstruction of b- and c-hadron decays	Trabelsi
4) Overview on tau physics and constraint on tracking from taus	Dam
5) Tau reconstruction and Performance at CEPC	Yu
1) Top physics at FCC-ee	Fuks
2) Precise theoretical predictions for top physics at FCC-ee	Durieux
3) Detector constraints from Top physics	Andrea
1) Higgs self coupling and Higgs rare decays	Petit
2) BSM physics at FCC-hh / SUSY	d'Onofrio
3) BSM physics at FCC-hh / Exotics	Genest

Session Chairs

Ils préparent au moins deux questions pour lancer la discussion.
Les contacts correspondants aux sessions aident à alimenter les questions.
Les slides de talks seront dispos la veille de la session

Introduction: GB

Détecteurs: Roy

Electroweak: A. Blondel

Higgs: P. Janot

Heavy Flavor: MH Schune

Top: P. Azzi

hh@100 TeV C.Grosjean

Etapes finales

La semaine prochaine:

- Circuler l'agenda aux speakers pour être sur que tout le monde a bien compris ce qui est demandé et quand le talk sera donné.
- Circuler le programme aux DU pour derniers commentaires.
- Circuler le programme sur grande liste (SFP ?) en précisant que le meeting sera video only, mais que l'inscription est requise pour recevoir les données de connections (afin d'être sur qu'on ne soit pas trop nombreux pour une conf Video)

Lundi 11 Mai 15H30 : dernier point avant le meeting. Point sur les activités dans les labos

Prochains meetings

Propositions:

Mardi 26 Mai 10H: Debrief du Workshop. Le point après le meeting FCC-CERN du 25.
ou Mercredi 27 10H

Vendredi 25 Juin 15H: Le point sur les activités dans les labos. Préparation de l'après-été

AOB ?