

General News

S. Muanza: CPPM Marseille, CNRS-IN2P3 & AMU

FC-CPPM Monthly Meeting

June 22, 2021



1 News from Europe and France

2 Meetings

ECFA: Series of Symposia

- ECFA detector R&D road map, launched 25 May 2021, ([Link](#))
 - Task Force 2: Liquid Detectors (LAr)
 - Task Force 3: Solid State Detectors (Si Sensors, see talk by Amr)
 - Task Force 6: Calorimetry (Si-based/Crystal/LAr calorimeters)
 - Task Force 7: Electronics & On-Detector Processing (FE, ME, BE)
 - Task Force 8: Integration (cooling, mechanics, integration)
 - Task Force 9: Training

European Countries Organizing for FCC

- FCC-Nordic: [Link](#)
- FCF-Germany: [Link](#)

Synergy for Calorimétry

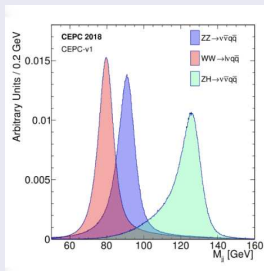
- LAr Calorimeter (N. Morange, IJCLab)
- Crystal Calorimeter (S. Gascon, IP2I)
- CALICE (V. Boudry, LLR)
- IDEA (Italians)

Synergy for Tracking

- Gathering of IPHC (+C4PI Platform), CPPM, IP2I
 - DICE: hybrid & DMAPS, IPHC & CPPM (2021-2023), see [talk](#) by Marlon at FCC-Fr Workshop in Jan. 2021
 - CMOS (IIC): thin & granular pixels, IPHC

Physics Study for FCC-ee

- Search for charged Higgs bosons
 - Talk by S.M. at FCC-FR Workshop in Jan., no work till then!
- New M2 Internship: A. Ettarky
 - Arrived late from Marrakech, to return in late august, defense at mid-september
 - Topic: improve dijet mass peak separation using jet charge



2021 Budget

- Master Project: FCC-Phys (IN2P3)
 - FCC Activity at CPPM: 3 k-euros (S.M.)
- CPPM:
 - FC & RD Upgrade: 2 k-euros (P. Pangaud)

Current Meeting Outline

FC-CPPM Monthly Meeting

Tuesday 22 Jun 2021, 11:00 → 12:00 Europe/Paris

Zoom

Patrick PANGAUD (Aix Marseille Univ, CNRS/IN2P3, CPPM, Marseille, France), Steve Muanza (CPPM Marseille)

Description ZOOM Link

<https://cern.zoom.us/j/99371738859?pwd=MWlkYitlM0F4d0ZmMW9zOVdUck9wUT09>

11:00	→ 11:10	General News Speaker: Dr Steve Muanza (CPPM Marseille)	🕒 10m
11:10	→ 11:25	ILC News Speaker: Claude Vallee (Centre de Physique des Particules de Marseille)	🕒 15m
11:25	→ 11:40	Trigger Sans Fil Speaker: Dirk Hoffmann (Centre de Physique des Particules de Marseille)	🕒 15m
11:40	→ 11:55	Retour sur le symposium TF3 de l'ECFA Speaker: Anr Habib (CPPM/CNRS - Aix Marseille Université)	🕒 15m

Next Meetings

- "FCC Week", 28 Jun. - 2 Jul. 2021 <https://indico.cern.ch/event/995850/>
- "Colloque de Restitution de la Prospective IN2P3", Giens, 19-22 Oct. 2021
- "ILC Workshop on Potential Experiments (ILCX2021)", Tsukuba, 26-29 Oct. 2021 <https://agenda.linearcollider.org/category/265/>
- "FCC-FR Workshop", Annecy, 30 Nov. - 2 Dec. 2021

" FCC-France Jamboree", 25 Jun. 2021

vendredi 25 juin 2021 à 14:30 → 17:15 Europe/Paris		
Description		
14:30 → 14:45	News /intro Orateur: Gregorio Bernardi (APC Paris)	🕒 15m
14:45 → 15:00	Bc->taunu (IJCLab) Orateur: Yasmine Amhis (IJCLab)	🕒 15m
15:00 → 15:15	Etudes des performances de reconstruction de traces (résolution en impulsion , paramètres d'impact...) en fonction du design des détecteurs internes de traces. Aymeric FRANCIA (enc. Gaëlle BOUDOUL) Orateur: Gaëlle Boudoul (cnrs)	🕒 15m
15:15 → 15:30	Etude d'impacts de choix de géométrie du tracker et de budget de matière sur la résolution du tracking (IPHC) Orateurs: auguste besson (Institut Pluridisciplinaire Hubert Curien) , Jeremy andrea (IPHC)	🕒 15m
15:30 → 15:45	The total e+e- → ZH cross section σ_{ZH} and mass measurement from the recoil, Orateurs: Ang LI (APC Paris) , Gregorio Bernardi (APC Paris)	🕒 15m
15:45 → 15:55	The total e+e- → ZH cross section σ_{ZH} (IJCLab) Stagiaire (Nicolas MORANGE) Orateur: Nicolas MORANGE (ICNRS/UMR9012)	🕒 10m
15:55 → 16:05	The total e+e- → ZH cross section and the Higgs self-coupling σ_{HH} Orateurs: Cesare Cazzaniga (Ecole Polytechnique - ETH) , Roberto Salerno (LLR)	🕒 10m
16:05 → 16:15	Higgs boson coupling measurements to charm quarks at FCC-ee Orateurs: Giovanni Marchiori (APC Paris) , Mariette Jolly, Paul Paqueiez (ENS Paris-Saclay)	🕒 10m
16:15 → 16:30	Physique de précision sur les modèles de Higgs composite au FCC-ee: Construction d'un modèle effectif, avec un singlet scalaire, pour modéliser des scalaires composites légers" Andres PINTO (Giacomo CACCIAPAGLIA) Orateur: Giacomo Cacciapaglia (IP2i Lyon)	🕒 15m
16:30 → 16:45	Perspectives for high-precision $\alpha_S(m_Z^2)$ determinations FCC-ee (LPNHE) Orateur: Luc Poggioli (LPNHE Paris)	🕒 15m
16:45 → 17:00	Nouvelles études sur b -> s tautau (LPC) Orateur: Stephane Monteil (Laboratoire de Physique de Clermont - UCA/IN2P3)	🕒 15m