

Introduction

Luc Poggioli

- Goal
- Environment
- Team
- Today's agenda

Disclaimer: Meeting more oriented FCC-ee

- A priori 1st machine in future (before FCC-hh)
- IN2P3 first emphasis
- Other projects are mostly ee (ILC, CLIC, CepC)

Goal of the meeting

- Inform on FCC project, physics & detectors
- Trigger involvement in physics studies
 - Part time, where lab has expertise & interest (eg Higgs, Flavor), but not only
- Trigger involvement in detectors R&D
 - Part time, where Lab has expertise & interest, but not only
- **NB:** A priori good feedback for the future
 - From European Strategy 'leaks' FCC to be strongly supported
 - FCC-IS (Innovation Study) accepted
 - FCC-IS kick-off (9-13 November)
 - Relationship with ECFA under progress

Why now?

- Environment
 - European Strategy initial timescale
 - 19-20/03 Council session to discuss ESPP recommendations cancelled
 - 25/05 Budapest Council meeting to endorse strategy cancelled
 - FCC-France
 - General meeting 14-15/05
 - Laboratoire
 - Aim to present the project at June Conseil Scientifique
- FCC timescale
 - Although FCC start ~ 2038-2040
 - Expect proto-collaborations with Expression Of Interest ~ 2026

Today's team

- Persons involved today
 - Alain, Giovanni M., Greg, Bogdan, Luc
- Potentially
 - ITN position (Innovative Training Network) for Physics tools
 - PhD 2021 (eg part ATLAS, part FCC)
- Activities
 - Deepening knowledge on FCC physics & detectors developments
 - Hands on Simulation & Reconstruction software
 - Define detector parameters from benchmark processes
 - Physics
 - QCD α_s measurement at Z pole
 - Basic process to master full chain, eg Z to bb

Today's agenda

OVERVIEW

- Goal of the meeting	Luc	5'
- General situation & machines	Marco	10+5'
- The FCC project	Luc	10+5'
- FCC in France	Greg	10+5'

PHYSICS

- Electroweak & Higgs	Alain	20+5'
- QCD	Bogdan	10+5'
- Flavour	Francesco	10+5'

DETECTORS

- Detectors general scheme	Luc	15+5'
- Detectors/R&D activities at labo		
. Si for tracking/vertexing	Giovanni C.	15+5'
. R&D for W/Si calorimetry	Rémi	15+5'
	All	15'

NEXT