# News - Physics Performance, July 19, 2021

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# Improving SW documentation

https://github.com/HEP-FCC/FCCeePhysicsPerformance/tree/master/General https://github.com/HEP-FCC/FCCAnalyses/tree/basicexamples/examples/basics

### **Basic examples**

This directory contains a number of examples each showcasing a specific functionality of the FCCAnalyses framework. It serves as a reference guide for how to implement specific common usecases or you can work through the examples one-by-one in order as a tutorial to familiarize yourself with the full functionality of the framework.

Each example is a stand-alone script for demonstration purposes, and does not make assumptions on a specific physics case. To understand how to write a full analysis with the FCCAnalyses framework please have a look at (insert a link to documentation about code class-structure) - the examples here only illustrate specific technical functionalities.

#### Table of contents

- Prerequisites
  - RDataFrame
  - EDM4HEP event model
  - Structure of EDM4HEP files
- Reading objects from EDM4HEP
- Association between RecoParticles and MonteCarloParticles
- Navigation through the history of the Monte-Carlo particles

Explanation of the reference collections in EDM4Hep files (Muon#0 etc..)

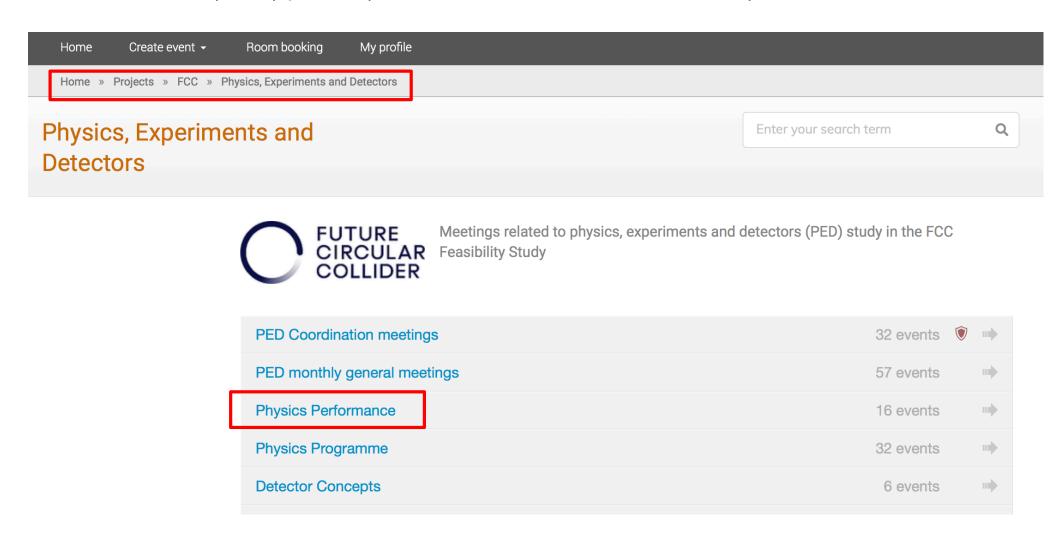
Basic code examples.

# Announcements & coming events

- Next FCC France workshop (Annecy): Nov 30 Dec 2
- FCC Physics, Experiments & Detectors workshop in Liverpool
  - Date is now fixed:
  - 7-11 Feb 2022

# Reshuffling of Indico categories

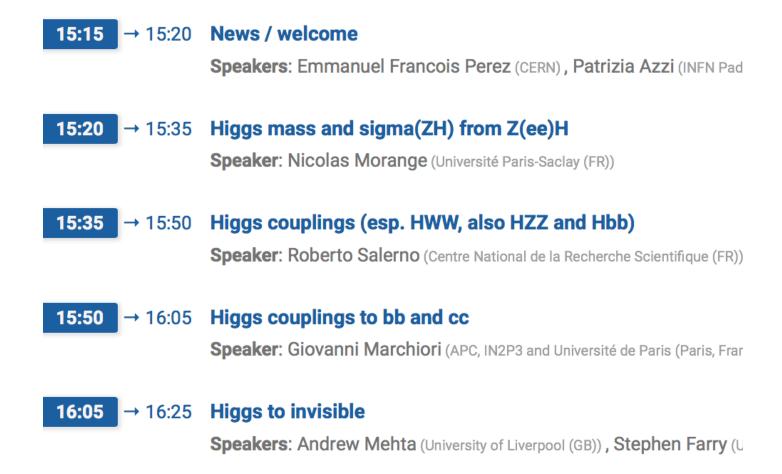
Reflecting the new structure: now under the "Physics, Experiments and Detectors" (PED) pillar: (cf Patrick's talk at the FCC week)



# Today's meeting & organizing analysis efforts

- Several Higgs reports, work done recently with master students or interns, at LLR, IJCLab, APC, Liverpool
  - They do not necessarily continue in the host group with a thesis, but has allowed some FCC-ee analysis to get started
- In case you have had a student with whom you have started an FCC-ee analysis effort, please let us know!
- Even better: please contact us when you start, or consider to start, a case study analysis, rather than at a later stage
  - Synergies / common grounds with other efforts already going on
  - Benefit from knowledge already in the group
  - Technical support, common MC samples, etc

# Today's agenda and next meeting



Next meeting (t.b.c.): Monday, September 20, 2021