

Welcome from GT4

Carlos Munoz Camacho, Cyrille Marquet, Michael
Winn

19/09/2024

Goal of this 1-day workshop

- **Compressed information about the ESPPU & the French input**
 - Context, procedure, projects
 - Compact format: apologies to the speakers to force in short time slots
 - Common input from CEA and CNRS
- **Mobilize**
- **Encourage consolidation**
- Provide help for the GT4 coordinators for the synthesis document

A mixed agenda

- **Mid-term projects of the French community at the HL-LHC Run 5 & 6**
 - Not the main question of the ESPPU, but:
 - Main interest of heavy-ion community
 - Ambition & time scales in tension with post-LHC collider as fast as possible
- **Future collider at CERN**
 - FCCee as first stage of FCC project at CERN
 - Technology survey in view of hadron-hadron/lepton-hadron machines
 - Discussion on mid-term & far-term future : Run 5, FCC, alternative scenarios
- **Theory discussion**
 - In view of different experimental programmes: QCD matter, hadron structure, precision frontier
- **Synergy & interdependence between Europe & the rest of the world**
 - Major QCD-project with French contributions outside Europe: Electron-Ion collider in the US

Our impact

- **Not the centre of High-Energy Physics**

- We are only one of 4 physics working groups: energy frontier, intensity frontier, neutrinos, QCD

However: significant part of the LHC programme & the French community at CERN

- **Our motivation independent of beyond-the-standard-model physics discoveries**

- **Searching & understanding new phenomena & of forms of matter**, not for new particles/fields
- Driven to large extent by measurement: 'perfect liquid', 'collectivity', 'regeneration'

- **We are a dynamic environment**

- **No reason to hide:**

We are concerned!

If we have to say something, we should do so!