FUTURE CIRCULAR COLLIDER
Innovation Study

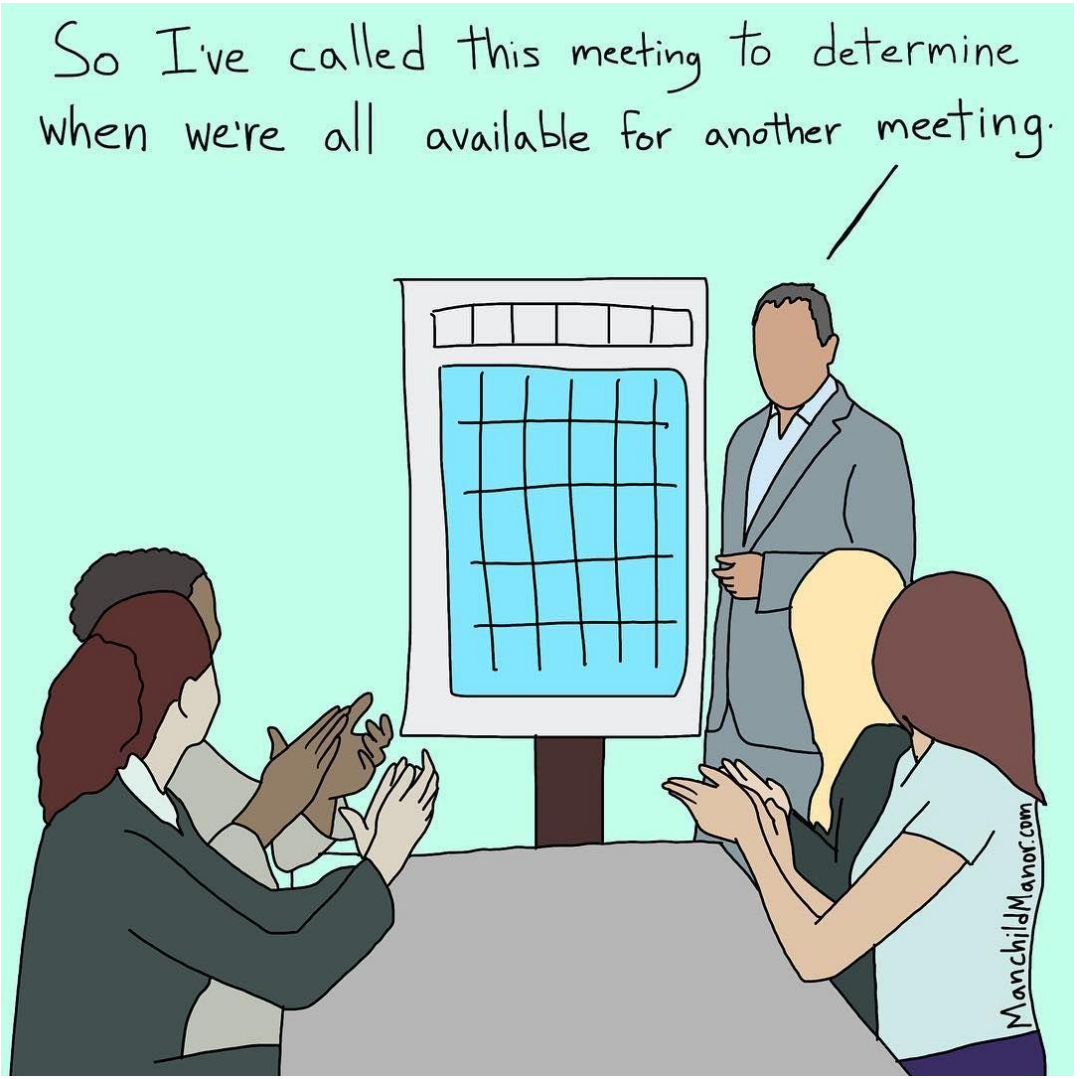
# FCCIS Scientific meetings and publication status

Panagiotis Charitos, Marcin Chrzaszcz

FCC week, 28.06-02.07. 2021

# Outline

1. **Scientific meetings:**
   - **NoW**
   - **Liverpool FCC Physics Week**
2. **Publications**
   - **current EPJC essays**
   - **further contribution**

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# FCC November Physics Workshop 2020

5 PM **WP5** Leverage & Engage: Tools for collaborative writing & publishing of scientific documents — Remote

**Convener**: Panagiotis Charitos (CERN)

1:30 PM **CERN's Digital Repositories Technology & Services Highlights**
**Speaker**: Dr Jose Benito Gonzalez Lopez (CERN)
2020-11-FCC.pdf

1:50 PM **Collaborative Writing : Overleaf N.N.**
**Speaker**: Dr John Hammersley (Overleaf)
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2:15 PM **Collaborative Writing : Springer Nature N.N**
**Speaker**: Dr Volker Boeing (Springer)
SpringerFCC-Volker....

2:40 PM **Publishing of Proceedings - FCC week 2021 and beyond**
**Speaker**: Dr Christian Caron (Springer Nature)
SpringerFCC-Procee... SpringerFCC-Procee...

3:10 PM **WP5** Leverage & Engage: Dissemination and stakeholder engagement — Remo

**Convener**: Dr Panagiotis Charitos (CERN)

1:50 PM **Plan for community building through the development of a joint physics programme at the FCCs** 20
**Speaker**: Dr Marcin Chrzaszcz (Polish Academy of Sciences (PL))
FCCIS_EB_0911202... Recording

2:10 PM **Plan for scientific/technical dissemination** 20
**Speaker**: Dr Christian Caron (Springer Nature)
Recording SpringerFCCOvervie... SpringerFCCOvervie...

2:30 PM **Fundamentals for the communication strategy of FCC** 20
**Speaker**: Mr Markus Mooslechner (Terra Mater Factual Studios)
PPT-FCC-Kickoff Pr... PPT-FCC-Kickoff Pr... PPT-FCC-Kickoff Pr... Recording

2:50 PM **Project visual language and guidelines** 20
**Speaker**: Ms Feldner Astrid (Bleed Design Studio)
fcc_kickoff_bleed.pdf Recording

12:00 PM **WP5** Leverage & Engage (FCCNoW Proceedings / Special issue of EPJ+,) — Remote

**Convener**: Panagiotis Charitos (CERN)

10:30 AM **Overview and current status of EPJ+ publications** 15m
**Speaker**: Christian Caron (Springer Nature)
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10:45 AM **Round table** 40m

- Guest Editors of Part I / progress update
- Guest Editors of Part II / progress update
- Guest Editors of Part III / progress update
- Guest Editors of Part IV / progress update

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# Current FCC week

## FCCIS WP5 (Leverage & Engage): Collaborative Writing & Publishing tool

**Convener**: Panagiotis Charitos (CERN)

**2:00 PM** — **From collaboration to submission**

**Speaker**: Katherine Arundell (Springer Nature)

FCCIS WP5 June 20...

**2:20 PM** — **What's new at Overleaf in 2021?**

In this presentation I'll give a summary of the recent feature releases and the platform itself, before running through the new features and concludi

**Speaker**: John Hammersley (Overleaf)

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**2:40 PM** — **Round table discussion**

## FCCIS WP5 (Leverage & Engage): FCCIS communication & engagement

**Convener**: James Gillies (CERN)

**4:00 PM** — **FCC Communication Strategy** — 20m

**Speaker**: Markus Mooslechner

**4:20 PM** — **Mining the Future contest performance and output** — 20m

This presentation will showcase the Mining the Future competition and communications campaign.

The FCC study wants to couple scientific discovery with environmental sustainability. Building a Future Circular Collider and the infrastructure related to it would generate about 9 million cubic metres of excavated materials, mainly molasse. The Study wants to divert these materials from landfills and put them to good use.

That is why the FCC collaboration, CERN and Montanuniversität Leoben, with the support of the EU-funded H2020 FCCIS project, have launched the Mining the Future competition. This competition hopes to identify sustainable reuse solutions for materials excavated during the construction of a next-gen collider. It also wants to draw a roadmap for wider applications beyond this specific project.

**Speaker**: Ms Katrien Witpas

Mining_the_Future_... Mining_the_Future_...

**4:40 PM** — **Communicating the FCC feasibility study** — 20m

As mandated by the European Strategy for Particle Physics, CERN has established the Future Circular Collider (FCC) feasibility study to investigate, over the next 5 years, the technical and financial viability of the new generation of particle colliders at CERN.

This talk focuses on advances in the development of a local communication plan for the FCC feasibility study.

The FCC tunnel would be 3 times longer than that of the Large Hadron Collider (LHC), bringing CERN's concept of local to another level. This comes with significant consequences. On the one hand, the infrastructure would extend CERN's local benefits to a much wider area. On the other, some disruption due to activities on the ground, during both the Feasibility Study and in potential subsequent stages of the project, is inevitable. Any action impacting the local area must be communicated effectively, through timely engagement with a range of audiences in both Host States.

CERN's communication strategy establishes the for fluid and transparent two-way communication with the local communities. Within this framework, a local communication plan is being developed in close collaboration with local authorities in France and Switzerland. Some of the issues being investigated at the moment are the identification of local stakeholders; the correct use of communication channels; the development of targeted messages and the design of adapted communication supports.

**Speaker**: Andrea Perez Fernandez (CERN)

**5:00 PM** — **FCCIS scientific meetings and publication status** — 20m

**Speaker**: Marcin Chrzaszcz (Polish Academy of Sciences (PL))

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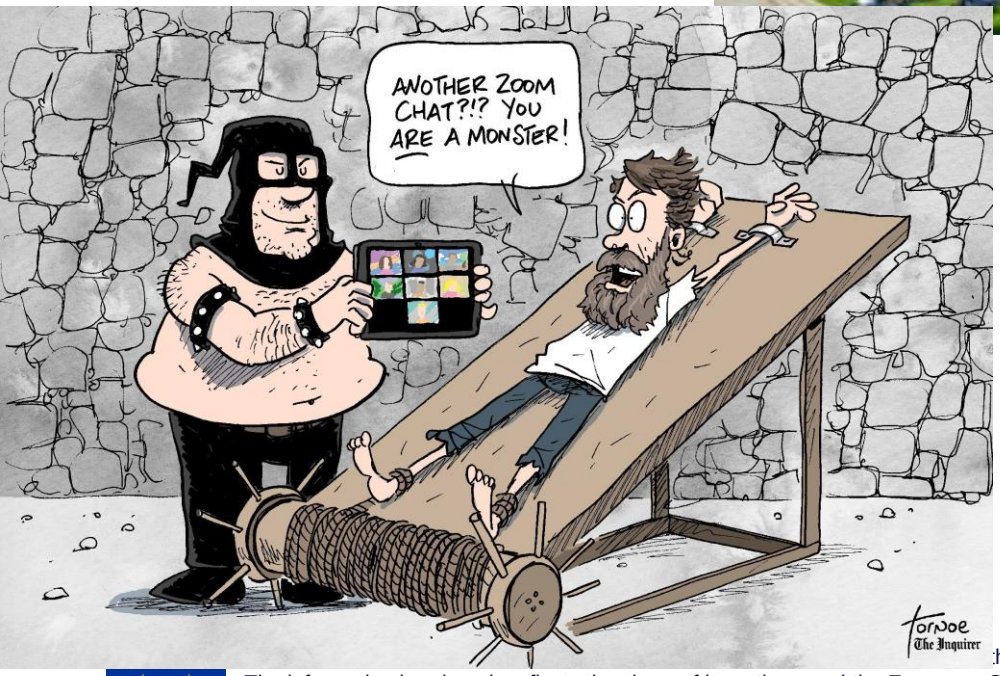
# Future FCC Physics workshop

Where:
University of Liverpool
When:
7-11 February 2021
And the most IMPORTANT:
Hybrid meeting




Advisory committee is being formed.

Program & Local committee nominated. Possible to add more people.

Estimating number of on-site participants to determine the lecture rooms requirements.

Securing affordable accommodation

he European Union's Horizon 2020 research and innovation programme under grant No 951754.
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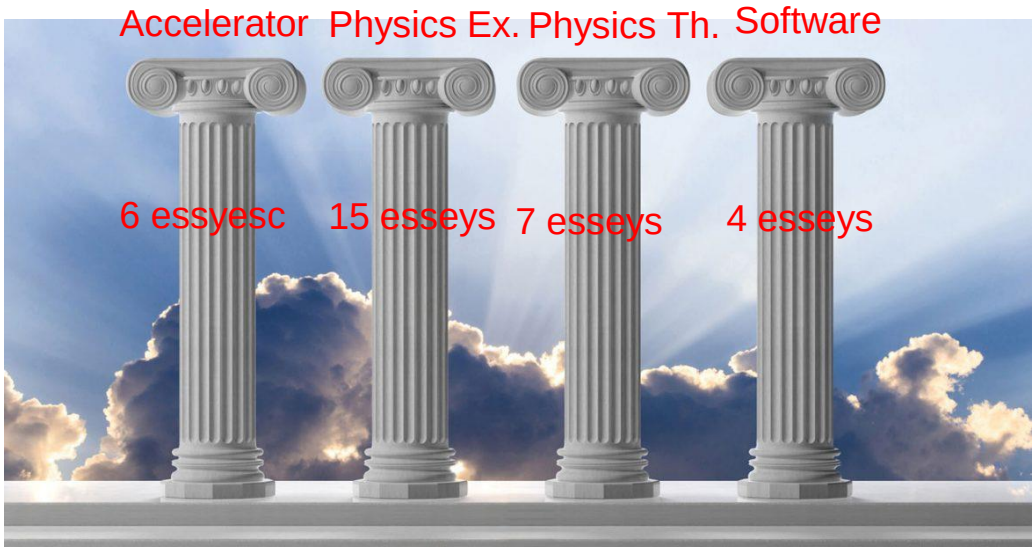
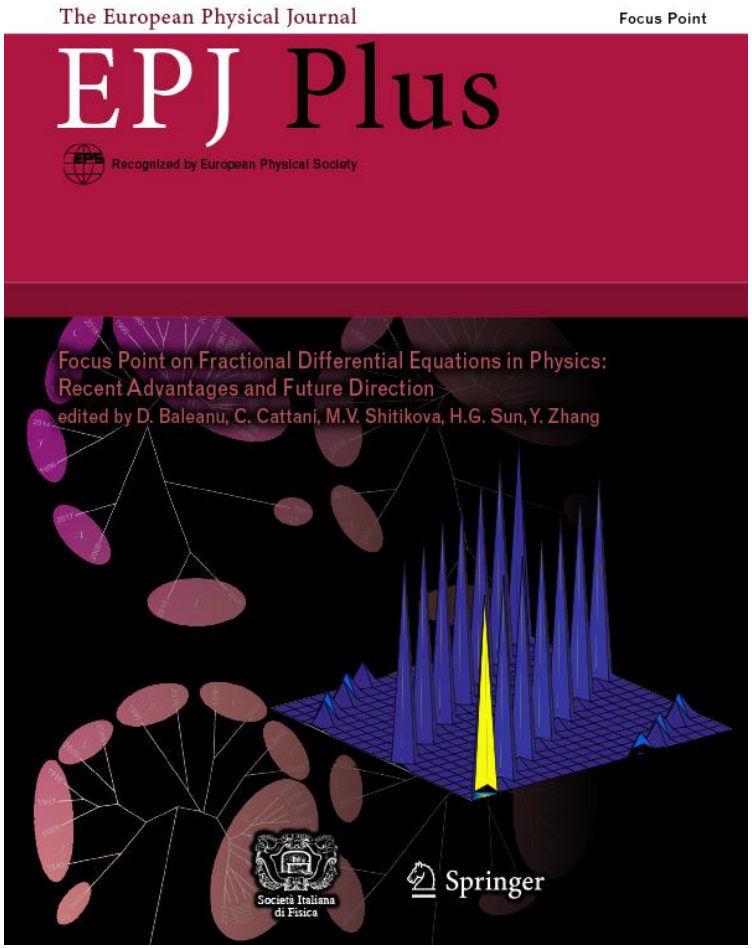
# Scientific publications

- **EPJ+ Special Issue** "A future Higgs & Electroweak factory (FCC): Challenges towards discovery

- Submission deadline: 30 June 2021
- Four chapters:




See P. Janot slides LINK

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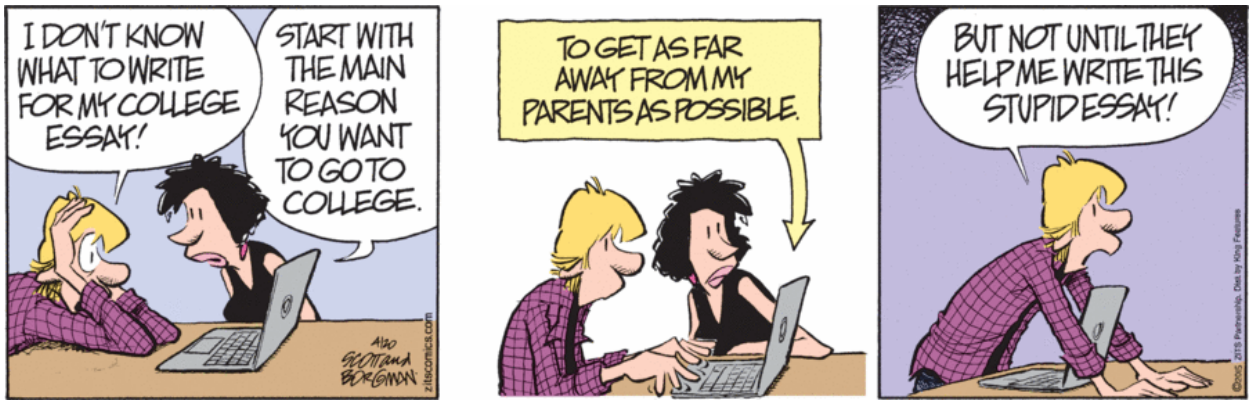
# Future publications

- We are planning 2nd round of essays.
- This time concentrating on FCC-ee accelerator technology.

- SRF cavity dev.
- High eff. Klystrons
- Quadrupole magnets
- Polarization and CME calibration
- Injector design
- Cold SSS
- FCCee & EIC overview




- Inviting also FCC-hh

  - Time scale:
    deadline end of November 2021
    publication February 2022

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THANK YOU