

# 10 TeV Detector Meeting

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THE UNIVERSITY OF  
CHICAGO

# Introduction

- We may need to change the time of this meeting for the fall semester:
  - when2meet poll for availability: <https://www.when2meet.com/?20922266-aBjqc>
  - If you'd like to participate in these meetings please enter your availability!
- At the moment the best times are:
  - Thursdays at 11 AM Central (1800 CERN): current time
  - Tuesdays at 11 AM Central (1800 CERN)
  - Fridays at 3 PM Central (2200 CERN): effectively US-only
- For the moment I suggest we **keep the current time**.

# Paper Plans

- What are people are currently working on?
  - **Princeton**: single pion samples; calorimeter performance
  - **Fermilab/Yale**: tau reconstruction; tracker occupancy
  - **Chicago**: track reconstruction with single muons and BIB (timing, fake rates, resolution)
  - **Tennessee**: (electron, jet, muon) reconstruction; calorimeter performance; event displays
  - **DESY**: photon reconstruction, BIB subtraction, sample generation and detector layout
  - **CERN**: machine-detector interface, BIB simulation
  - (according to Google notes and recent meetings; tasks/people **may be missing!**)
- At some point we want to converge and **publish a paper...**
  - What (if anything) **isn't** being worked on?
  - We should start thinking about what results/sections we'll want to include.
  - What **open questions** do we need to answer in the studies that are currently underway?
- Plan to discuss in more detail next week.

# Useful Links

- Documentation:
  - [Google doc with notes, list of tasks](#)
  - [Muon Collider Software Tutorial](#)
  - [Shared Overleaf](#)
  - [Key4Hep Documentation](#)
  - [LCIO Documentation](#)
  - [Snowmass Connect Documentation](#)
- Data files: `/collab/project/snowmass21/data/muonc/fmeloni`
- Communication channels:
  - `#10tev-simulations` channel on [SCHEMA slack](#).
  - [muoncollider-detector-physics@cern.ch](mailto:muoncollider-detector-physics@cern.ch): egroup (mailing list) for physics-related announcements from IMCC.