

10 TeV Detector Meeting

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THE UNIVERSITY OF
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Roundtable and Paper Status

- Occupancies:
 - Trackers: **DONE**
 - Calorimeters: **DONE**
 - Source of calorimeter hits in cell vs E, time
- Tracks: **UChicago**
 - Reco efficiency vs p_T , η
 - Fake rate vs p_T
 - Track momentum resolution
 - Impact parameters resolution
- Electrons:
 - reco efficiency vs p_T , η (**Adam Vendasco**)
 - Energy resolution vs E, η
- Photons: **DONE** (to be updated with fixed BIB)
 - Reco efficiency vs E, θ
 - Energy resolution vs E, η
- Muons:
 - Reco efficiency vs p_T , η
 - p_T resolution vs p_T , η
- Jets:
 - Multiplicity (**Ben Johnson**)
 - Selecton efficiency vs p_T , η .
 - Energy resolution vs p_T , η .
- Taus:
 - Reco efficiency vs p_T , θ (**Rose and Sergo**)

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: egroup (mailing list) for physics-related announcements from IMCC.