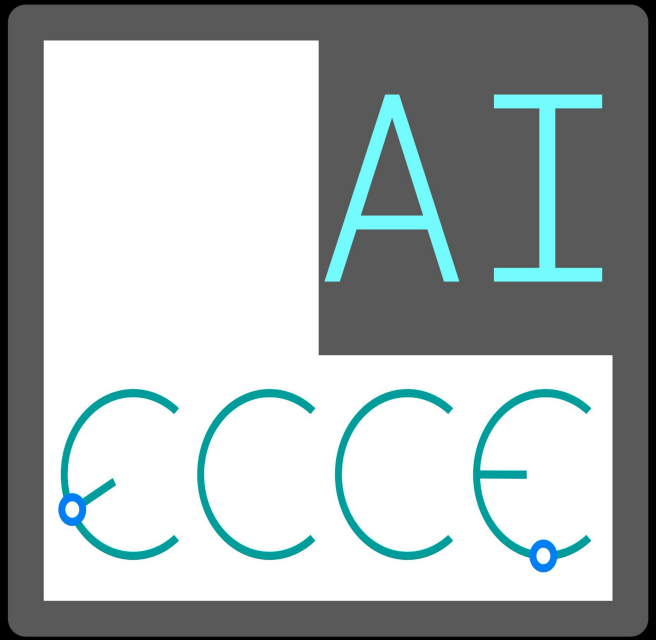


C. Fanelli

on behalf of ECCE AI WG

Publication Status

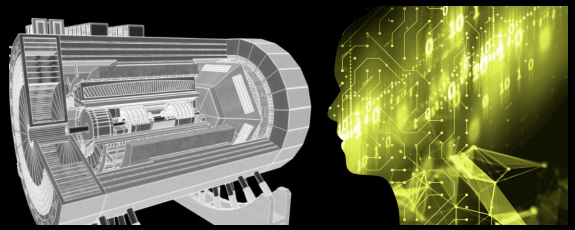
ecce-paper-comp-2022-01
ecce-paper-comp-2022-02

ECCE Bi-weekly Meeting, April 25, 2022

ecceaiwg.slack.com

AI-assisted Optimization of Tracking System

- Draft publication for Collaboration Review posted on 4/17/2022
- Received comments from J. Lajoie (4/21) and J. Osborn (4/22):
- All comments have been already addressed / corrections implemented; we will submit our replies and close the issues.
- A new version of the paper will be uploaded too.



ecce-paper-comp-2022-02

Thanks for the feedback!

We found your comments useful and they further improved the paper

DL-based Muon Identification with ECCE

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1 Introduction (assigned to Cris) 3

2 The ECCE detector (assigned to Bill) 3

3 The lepton reconstruction (assigned to Jin) 4

4 Lepton Identification using Deep Learning (assigned to Will) 5

5 Performance with Timelike Compton Scattering (assigned to Bill, Kayleigh, Rachel) 6

6 Summary (assigned to Cris) 7

7 Acknowledgements 7

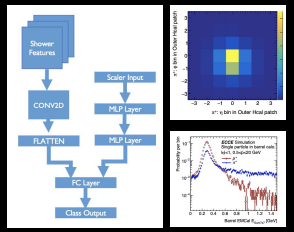
Appendix A Appendix 9

Bill Li working on it. ~60% done
Description of calorimetry stack

Jin Huang working on this Section.
Placeholders. Table with features used by the architecture — info from Will Phelps.

Led by CNU. Will Phelps completing description of architecture. Figures of PID performance need to be updated/beautified.

Bill Li working on the physics section (TCS). Impact of true muon identification. Once the draft is done it will be passed to Kayleigh and Rachel from Glasgow.



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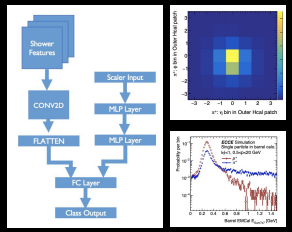

ecce-paper-comp-2022-01

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People have been extremely busy in the past week and we anticipate at least an extra week to have a first (not polished) draft

Meeting every Friday, 2:30pm