

Paper proposal: ECCE calorimeter NIM

April 11, 2022

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1 Introduction

2 Calotimeter Design

- ① Electron-End-Cap:
EEMC
- ② Barrel:
BEMC
IHCAL & OHCAL
- ③ Hadron-End-Cap:
FEMC
LFHCAL

3 Calorimeter Performance

- ① Clusterization
- ② Energy resolution
- ③ Position resolution
- ④ Track-Cluster matching
- ⑤ HCal-ECal cluster matching
- ⑥ Particle Identification
 - ① Single photon and neutral pion separation
 - ② Electron PID via charged pion rejection
 - ③ Hadron PID

4 Summary

Approach:

- Summarize main features of our proposed calorimeters in terms of design & performance
- Refer to previous publications for details on construction for reused OHCAL
- Information condensed from original calorimeter note to fit journal format

Remaining to do's

- Update mechanical design figures for EEMC, BEMC & forward calorimeters with help of engineers (\approx end of April)
- Cross check consistency of our inputs for simulations with those used in physics papers
- Minor plot cosmetics
- Author list
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- **Comments from you!**

Paper to be reviewed: [link]