

# Detector Team Update

11 April 2022



BaBar with all  
outer HCal sectors

# ECCE Detector Team Update

- See ECCE document database with links to Overleaf projects for all NIM drafts:
  - [https://docs.google.com/spreadsheets/d/1Nuke\\_bu3tKajKQoNEF50UzSZk2lpTMqrs2Xk5KjaduE/edit#gid=0](https://docs.google.com/spreadsheets/d/1Nuke_bu3tKajKQoNEF50UzSZk2lpTMqrs2Xk5KjaduE/edit#gid=0)
- This session, status of 4 ECCE detector-focussed NIM Drafts:
- **ecce-paper-det-2022-01: Design of the (overall) ECCE Detector for the Electron Ion Collider**
  - **Presentation at next opportunity.** See next page.
- **ecce-paper-det-2022-02: Design and Simulated Performance of Calorimetry Systems for the ECCE Detector at the Electron Ion Collider**
  - **Presentation Today** for “approval” (i.e. ready for internal comments)
- **ecce-paper-det-2022-03: Design and Simulated Performance of Tracking Systems for the ECCE Detector at the Electron Ion Collider**
  - **Status report later today**
- **Ecce-paper-det-2022-04: Upgrades for the ECCE Detector at the Electron Ion Collider**
  - **Started, in progress.** Describes dual-readout calorimetry, muon identifier chambers, hadron arm high-rapidity tracking layer, backwards hadronic calorimeter

# Status of Detector-focussed NIM Drafts

- [ecce-paper-det-2022-01: Design of overall ECCE detector](#)
  - Some figures will be replaced with publication quality versions.
  - Needs Wordsmithing! Those with write-access are very welcome to directly enter wordsmithing changes. Please don't worry, all changes are in git.
  - Please just ask if you wish read and/or write-access via Overleaf.
  - General comment & suggestions also welcome.
  - “Master” NIM alphabetical author & **affiliation** list still needs work.
  - [Will present for “Approval” at the next available approval session.](#)
- [ecce-paper-det-2022-02: Presentation now....](#)

**PRESENTATION:**  
**ECCE-PAPER-DET-2022-02**  
**ECCE Calorimetry Systems**

# Status of ECCE Tracking NIM

- [ecce-paper-det-2022-03: Design and performance of ECCE tracking systems](#)
  - Incorporating input from EIC Silicon Consortium
  - [Small amount of additional prose from EICSC coming soon](#)
  - Now acknowledges eRD16 (forward/backward silicon), eRD18 (barrel silicon), eRD25 (EIC Silicon Consortium), and will cite this within the text body.
  - Acknowledgements to prior work now improved.
  - [Will soon add more details concerning AC-LGAD TOF layers.](#)
  - Cites [ecce-paper-comp-2022-2 \(AI Assisted Optimization of ECCE Tracking Systems\)](#) which will be presented [later today](#).
  - Comments?