

TDR Planning

Barrel Hcal

August 30, 2024

Silvia's presentation at Lehigh

preTDR – Version0 & Version1

Only 2 preTDR draft versions in 2024 to minimize the load in view of the end-of-year “milestone”

- **Version0** by **September 29**
 - All preTDR text is there, even if it can be in a rough version
 - Additional material: planning required, part already in
 - Plots for Version0 can make use of a scattered set of simulation campaigns
- During October 2024, internal review process!
 - Recommendations to be integrated in Version1
- **Version1** by **December 1**
 - More refined text
 - Recommendations from the internal review have to be integrated
 - The additional material expected, it can still be in a rough text version
 - Plots for Version1 make use of the **October simulation campaign**
 - Version1 is the material that will be used for the Jan. 2025 DOE OPA review

BHCal Overleaf

- We will draft text in this shared overleaf document and then Stefan/Megan will port into the TDR overleaf document
 - <https://www.overleaf.com/5511525985fszctqczjths#ab5138>
- Outline in place
- Copied information from sPHENIX TDR but needs polishing
- Need additions for simulation studies and sPHENIX results

1 Hadronic Calorimetry

1.0.1 The barrel hadronic calorimeter

Requirements

Requirements from physics: Add text here.

Requirements from Radiation Hardness: Add text here.

Requirements from Data Rates: Add text here.

Justification

Device concept and technological choice: Add text here.

Subsystem description:

General device description: Add text here.

Sensors: Add text here.

FEE: Add text here.

Other components: Add text here.

Requirements from Data Rates: Add text here.

Implementation

Services: Add text here.

Subsystem mechanics and integration: Add text here.

Calibration, alignment and monitoring: Add text here.

Status and remaining design effort:

R&D effort: Add text here.

E&D status and outlook: Add text here.

Other activity needed for the design completion: Add text here..

Status of maturity of the subsystem: Add text here.

General Outline

Environmental, Safety and Health (ES&H) aspects and Quality Assessment (QA planning): Add text here.

Construction and assembly planning: Add text here.

Collaborators and their role, resources and workforce: Add text here.

Risks and mitigation strategy: Add text here.

Additional Material Add text here.