

PreTDR overleaf project (chapter 8):

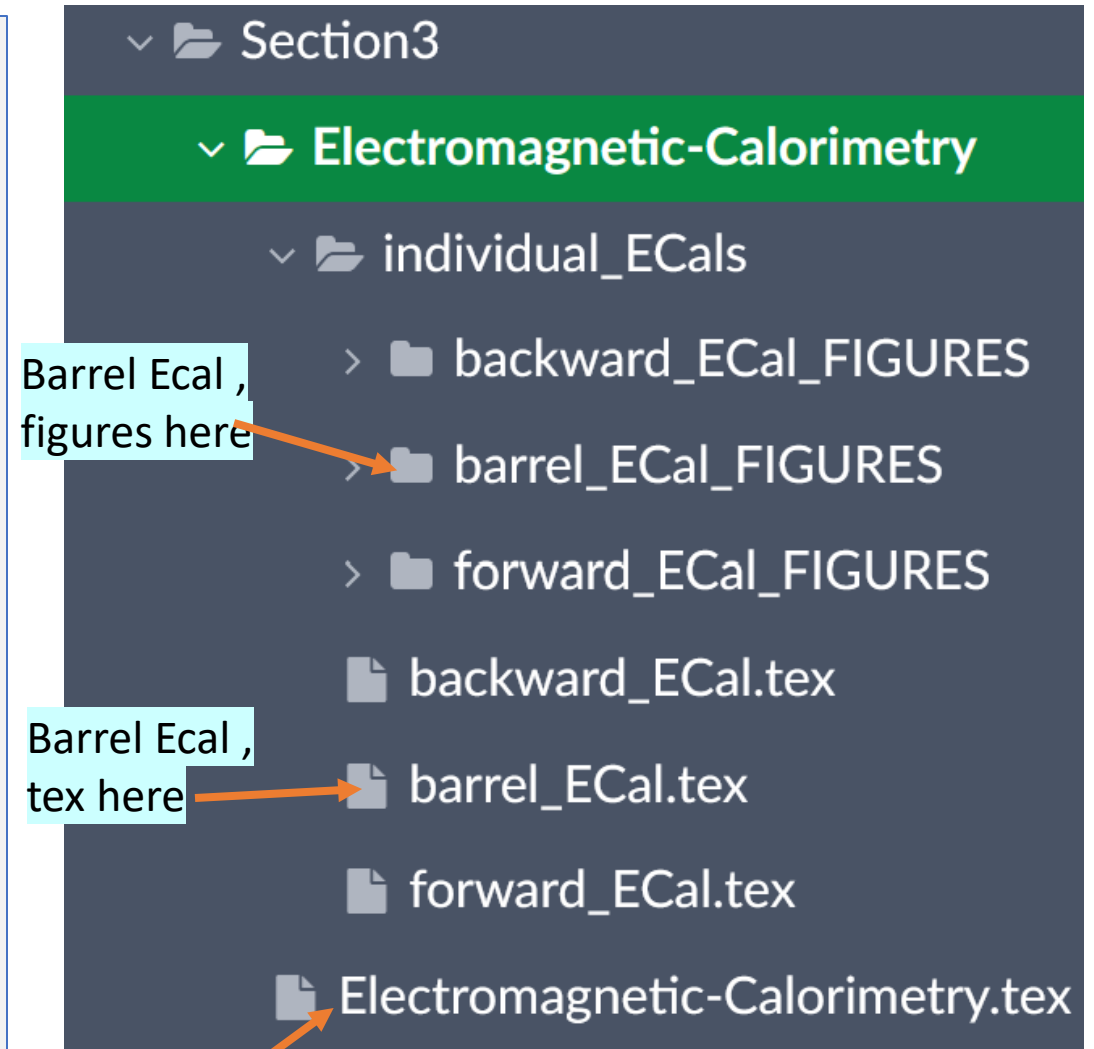
ready to start

The e-mail sent on June 19 : announcing that you can start editing

- **invitation to join the "ePIC Preliminary Design Report" overleaf project sent to**
 - DSLs, DSCTs
 - CC WG conveners (and ACs, SCCs) pending
- **NOW, you can start editing**
- **What follows is to support you in the editing effort**

What to edit and how

- **Your contributions (DSC) are included in the chapter/section 8.3.**
- Thanks to Douglas Higinbotham and his collaborator Anil Panta, **the project is structured so that**, while progressing in your editing, **you do not need to recompile the whole of it at each step**: recompiling a subsection (f.i. 8.3.5 for Electromagnetic Calorimetry) is enough.
- **You have access to the whole project, even if it is understood that you will edit only the sub-subsection of relevance for your DSC.** To facilitate your access, the project includes directories as needed.



By CC WG conviners (introduction)

The sub-subsections are NOT BLANK

- The structure discussed at 2 TIC meetings and finally approved is in: please, preserve it!

8.3.5.2 The barrel electromagnetic 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.

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.

- The titles of the sub-subsections present the subsystems with names that are easily intuitive also for readers outside the ePIC community.
- In case you would like to use your favorite subdetector name, you introduce the acronym at the beginning of your subsection and use it within your text
- Example:
 - Sub-sub section title: *8.3.5.2 The barrel electromagnetic calorimeter*
 - The DSC may decide (if they would like) to introduce and use *the acronym BIC*

How many pages?

- **The length of your subsection (excluding Additional Material) is expected to be within 10-15 pages; this length is related to the subsystem complexity and to its readiness. → a kind of Executive summary**
- Use these limits with a grain of salt.
- **IMPORTANT, about Additional Material:**
 - Please insert here all the extra material exceeding the compact format of the pre-TDR document.
 - At a later time, this extra material, which can be abundant, will be moved in appropriate **Appendices**.

- **Plots:**

- the plot format (a uniform one to be used all over our text) is being elaborated and communications will follow;
- the procedure by which each plot is related to the information used to obtain the plot itself (which simulation sample, which events selection and which cuts applied, ...) is being elaborated and, again, communications will follow.

→ **Therefore:**

- In case, while start editing, you need to make use of preliminary/temporary plots, please consider that, later, they have to be replaced with plot-figures according to the prescriptions mentioned here above.