The Design Task Force,

onwards to the end....

Andreas Freise, 20.03.2025

Baseline design, external review

- We are setting up this week an external review committee to review the new baseline design, i.e. the output of your work.
- **The review committee will be allowed to request changes that we will strive to implement.**
- Key dates for you:
  - Final deadline for submitting all documentation: **21.05.2025**
  - Internal deadline for delivering draft main document to ETO Directorate: **09.05.2025**

Composition of the review committee

- Chair
- 2 or 3 representatives across different nations, from the LIGO and Kagra projects or collaborations. All members need to be external to ETO and ETC.
- 2 or 3 representatives of CERN or other (astro)particle detector collaborations.
- Secretary of the Committee.
- Other external experts may be invited by the Chair to provide advice on specific technical or subject matter questions.

Key aspects to be reviewed

Mandate Compliance & Infrastructure Feasibility

- Does the document align with the Task Force's mandate (see Annex 2)?
- Are the proposed detector layouts feasible in terms of space and infrastructure demands?
- Do they mitigate civil infrastructure requirements compared to earlier layouts?

Clarity, Consistency & Supporting Information

- Is the Task Force Deliverables document clear, consistent, and logically structured?
- Are references to background information, simulations, models, and drawings complete and well-integrated?
- Is supporting material sufficient for relevant stakeholders (e.g. Local Teams)?

Scientific & Design Justification

- Are scientific objectives clearly defined and met by the proposed layout?
- Are design choices well-motivated, with proper consideration of alternatives?
- Are key design parameters identified and quantified?

Risk, Flexibility & Decision Support

- Is the risk and flexibility analysis solid and well-supported?
- Does it provide sufficient justification for configuration choices?

External review timeline

- More times from the proposed schedule (TBC):
  - Appointing review committee complete, week 24.03.2025
  - Briefing meetings of committee, throughout April 2025
  - Committee receives material: 21.05.2025
  - Committee delivers draft report: 06.06.2025
  - ETO (task force) provides reply to committee by: 13.06.2025
  - Committee delivers final report: 27.06.2025

My recommendation

- Agree now on the final structure of the main document.
- Start writing the main document now.
- Complete additional documents only after the main document has been fully completed.