

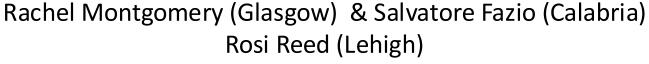
Updates from PACs











Physics Analysis Coordination Meeting – Aug th, 2025

News by E.B.: a reworking of the structure for the ePIC pre-TDR

The new structure proposed for the Detector preTDR

- **Executive Summary**
- Introduction
 - About the EIC project and the accelerator complex (high level approach)
- Requirements
 - Requirements resulting as an evolution of the YR ones, also cross-checked with those in the project requirement document (high level page)
- "chapter 8"
 - Presenting the detector subsystems matching the requirements (mainly individual performance)
- "chapter 2"
 - Presenting the holistic detector performance by the performance for key physics measurements
- **Detector-Accelerator interfaces** (INTEGRATION INTO THE FACILITY)

pre-TDR: the Science Chapter

Comments we have received by the E.B. during our discussion:

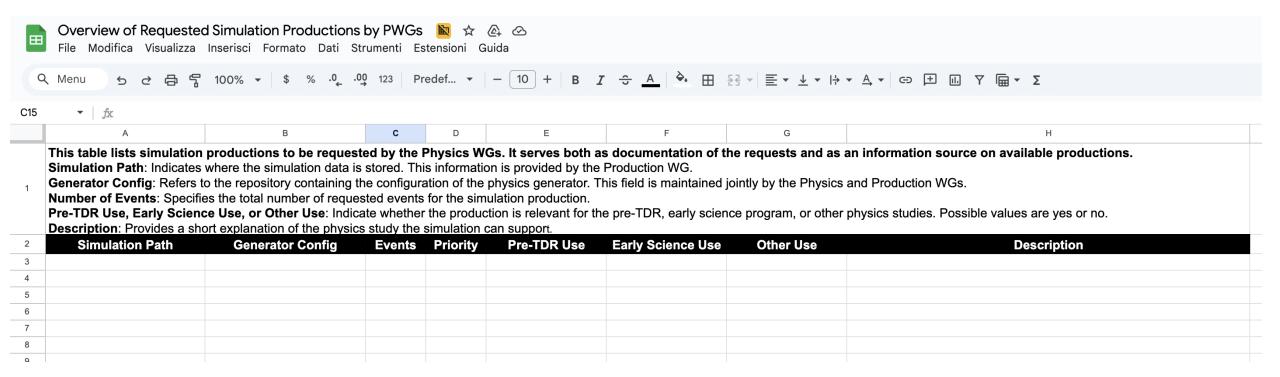
- \circ The previous two Sections 2.1 and 2.2 will go to the introduction (no longer on our shoulders).
- Everything else will follow the technical chapter.
 - This is in order to introduce the detector first, then present the holistic performance of ePIC by the performance of key physics measurements.
- Link to detector performance <u>still not fully there!</u>
 - How are the different kinematic reco methods related to the detectors?
 - How key observables (e.g. E-pz) depend on performance?
- The Science plots not always lead to a crisp message on detector performance
 - E.g.: neutral current xsec.s showcase the importance of luminosity, which is related to machine performance.
- We are divided by science (origin of mass, spin etc.) but we should be rather divided by processes (Inclusive, SIDIS, etc.), which better relate to what the detector is measuring.
 - We can then provide a table linking the NAS pillars to processes and thus to performance.
- → First action item for PACs: Rearrange a bit the table of contents to get a template that better fits the narrative and scope of our chapter.
- → We will dedicate our next PAC meeting (SEP 02nd) to this topic



- Indico: https://indico.global/event/15249/overview
- Please register even if attending online (select proper option)
- Anything you want to discuss or add to the time-table? Let us know!

Overview of simulation production requests

https://docs.google.com/spreadsheets/d/1BJeq3AYwefNC9m3palH6T0SHMxmRmHpOzLTSa_6SZIU/edit?usp=sharing



- An essential tool for helping S&C with organizing production
 - It was created and advertised a few months ago, as a follow up from discussions at the CFNS early science workshop
- This list needs to be filled by conveners of each PWG
 - either directedly or by PACs with the infos