Analysis Coordinator Meeting Planning for TDR

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Technical Design Report (TDR) – Detector, the needs

Chapter 2: Physics Goals and Requirements (should be short, < 50 pages)

- 2.1 EIC Context and History (like CDR 2.2 or YR section 1)
- 2.2 The Science Goals of the EIC and the Machine Parameters (like CDR 2.3)
- 2.3 The EIC Science (follow YR structure)
- 2.4 Scientific Requirements

Chapter 3: Interaction Region 6 Overview (Elke/Rolf contributing)

Chapter 8: Experimental Systems (can be long such that we can use as standalone detector TDR)

- 8.1 Experimental Equipment Requirements Summary (like CDR 8.2)
- 8.2 General Detector Considerations and Operations Challenges (YR 10, CDR 8.3)
- 8.3 EIC Detector
- 8.4 Detector R&D Summary
- 8.5 Detector Integration
- 8.6 Detector Commissioning and Pre-Operations

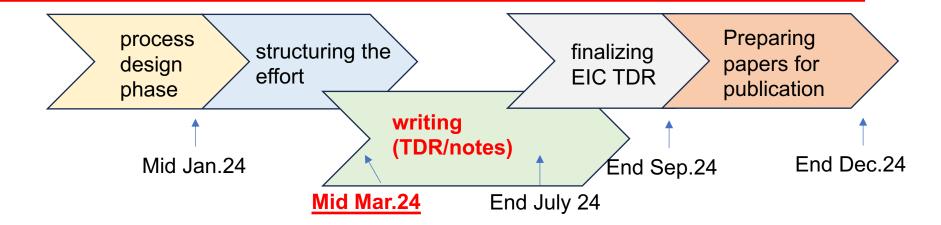
Chapter 11: Commissioning (Elke/Rolf contributing)

Appendix-B: Integration of a Second Experiment (mainly emphasizing feasibility, luminosity sharing, polarization with two experiments, and first-order checks of magnets/acceptance)

From the Project Management talk, Warsaw, July 2023

TDR – the ePIC goals and timelines

- The ePIC contributions to the EIC TDR (Chapters 2,8)
 - The EIC TDR is the top priority
 - Precise timescale driven by EIC project requirements
- Scientific production/dissemination
 - An extended version of the ePIC detector section from the EIC TDR with appropriate front matter, published in a scientific journal (such as NIMA, JINST, PRC, ...)
 - Derived from TDR Chapter 8
 - An ePIC Physics Performance long paper published in a scientific journal (such as NIMA, JINST, PRC, ...)
 - Derived and expanded from TDR Chapter 2 (Section 2.3)



TDR – structuring the effort

TDR

- PM Serves as the "managing editors" for the ePIC Contributions to the EIC TDR
- TDR Chapter 2
 - Holistic detector performance (short form)
 - The TC Office acts as "editor"
 - Organized/supervised by CC WG conveners
 - Physics performance and science reach (short form)
 - The ACs acting as "editors"
 - The Physics WGs as subgroups for text drafting
- TDR Chapter 8
 - Detector description and basic performance
 - Project CAMs/Collab. DSL's acting as "coeditors" for their sections
 - The DSCs provide studies, material, text, etc.
 - Software, Analysis and Data Preservation
 - Project CAMs and SCCs acting as "editors"
 - The electronics/DAQ CC WG and the software WGs

ePIC publications

- SP Office serves as the "managing editors" for the ePIC publications
- ePIC Physics Performance Publication:
 - Holistic detector performance (extended text)
 - The TC Office acts as "editor"
 - Organized/supervised by CC WG conveners
 - Physics performance and science reach (extended text)
 - The ACs acting as "editors"
 - The Physics WGs as subgroups for text drafting
- ePIC Detector Publication
 - Detector description and basic performance
 - DSL's acting as "editors" for their sections
 - The DSCs provide studies, material, text, etc.
 - Software, Analysis and Data Preservation
 - SCCs acting as "editors"
 - The electronics/DAQ CC WG and the software WGs for text drafting

TDR Details

- Writing needs to start in March! Not much time
- Please start placing approved plots (with descriptions) on PWG wikis
- Early February

 TDR physics kickoff Planning Meeting
 - Any dates we should avoid due to conflict?
- Physics TDR should come from everyone we should discuss a tentative readiness plan now to be discussed at the January collaboration meeting
 - Readiness = ability to produce plots and analyze software compains
- Physics will be a key part of the detector as it is needed to motivate why
 resolutions, efficiencies, etc need to be what they are.