

ecce-eic-prop update (“editorial/project”)

Tom Cormier, Richard Milner, Peter Steinberg / ECCE IB meeting / 10 May 2021

Proposal ramp-up

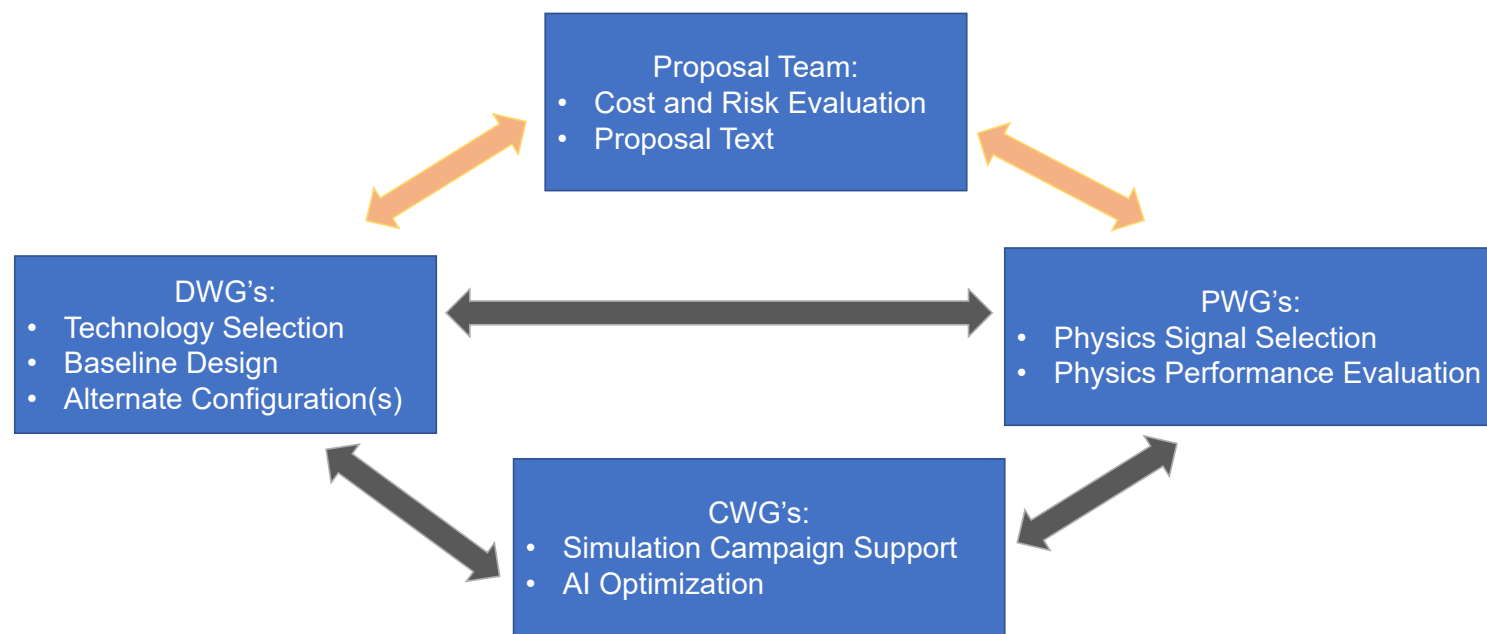
- **We agree that now is the time to start the process of forging the ECCE argument**
 - Propose to start with outlining as opposed to writing
 - Of course, all work/writing can be “released” as a supporting note (or NIM paper, etc.)
- **Need input from physics and detector teams (always aided by the computing team)**
 - This is a intensely-iterative process at the moment, but useful to envision some concept of the final product
- **We would welcome first drafts for the working outline (public?)**
 - Formal request delayed a bit due to internal discussions
 - Detector team - aim for 20 pages
 - *Still discussing how much of **cost/schedule/risk** belongs in detector section and how much will get spun off to an appendix, or external note*
 - Physics team - aim for 15 pages
 - Leaves a few pages for high-level introduction, computing, etc.
- **All of these constraints are subject to discussion within ECCE and further interaction with EIC project and host labs (BNL/JLab)**

Interactions within ECCE

From John's talk today:



Getting Organized (III)



5/10/2021

ECCE 4th IB Meeting

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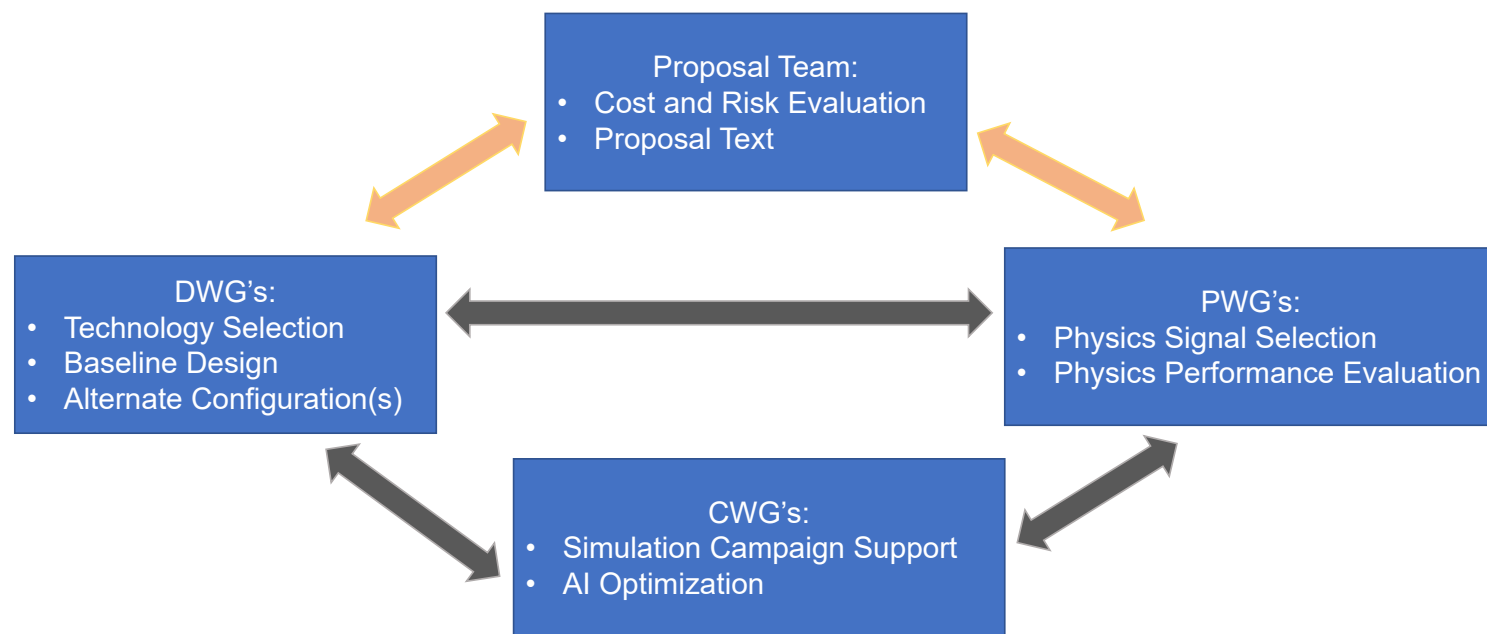
Interactions with CFCP

From John's talk today:

“CFCP”

Getting Organized (III)

ECCE



Call for Collaboration Proposals for Detectors at the Electron-Ion Collider

Brookhaven National Laboratory (BNL) and the Thomas Jefferson National Accelerator Facility (JLab) are pleased to announce the Call for Collaboration Proposals for Detectors to be located at the Electron-Ion Collider (EIC). The EIC will have the capacity to host two interaction regions, each with a corresponding detector. It is expected that each of these two detectors would be represented by a Collaboration.

Detector 1 is within the scope of the EIC project and should be based on the "reference" detector described by the EIC User Group (EICUG) in the Yellow Report (YR) and included in the EIC Conceptual Design Report (CDR). This detector must satisfy the requirements of the EIC "mission need" statement based on the EIC community White Paper and the National Academies of Science (NAS) 2018 report. US Federal funds are expected to support most but not all of the acquisition of Detector 1. It is currently planned to be located at Interaction Point 6 (IP6) on the Relativistic Heavy-Ion Collider.

This detector must satisfy the requirements of the EIC "mission need" statement based on the EIC community White Paper and the National Academies of Science (NAS) 2018 report.

5/10/2021

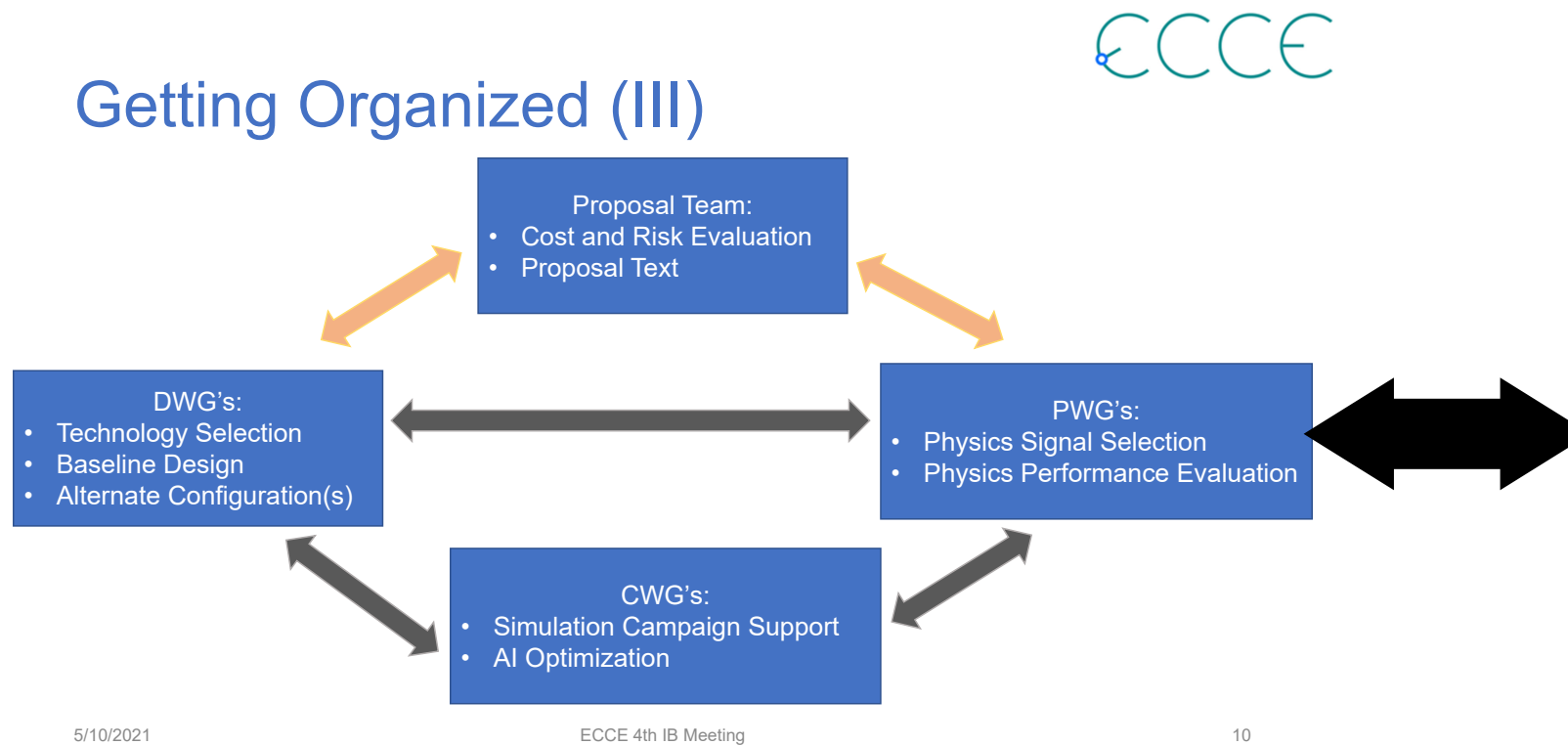
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“Flow down” from NAS/YR

From John’s talk today:

Getting Organized (III)



We need a template for all “submissions” to the proposal to make sure it can be connected back to the CFCP

1. What key aspect of EIC physics, as outlined in the NAS report, does the measurement address?
2. How would you characterize the performance of the overall ECCE reference design to perform the full physics measurement?
3. How might you propose to modify ECCE to improve this performance, and by how much would you expect it to improve?
4. How would the choice of field (1.5T or 3T) or IR (IR6 or IR8) improve/degrade the performance of the measurement?

We should also feel free to critically discuss the goals in the WP/YR/NAS

Proposal

- **Document management**

- github/gitea for individual papers, using issue tracking for comments
- overleaf for day-to-day writing, ideally using BNL instance
- still need a viable scheme for naming documents and a light DB for finding them, and associating them with collaboration members (for “credit”)
- Short term goal: set up overleaf linked to GitHub or gitea repository, as model for the other documents.

- **Discourse**

- Lots of progress, with active discussions with SDCC (Jerome)
- Some physics groups already using it (thanks!)
- Discussions of access control, e.g. so we can have private discussions (detector) and public (physics)