



# Analysis Coordination Reconstruction Thoughts

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# High-level analysis priorities for 2025



- ❖ **Priority 1:** Increase Analysis engagement —> Need to include analysis “module” attached to SCC landing page so people can go from learning to make histos to real analysis
- ❖ **Priority 2:** Increase realism for physics observables —> Multiple issues - need more “physics objects”, need PID/eID
  - Work with SCC to develop a boundary between what is in the data model and what is under analysis macros/scripts
- ❖ **Priority 3:** Efficiently connect tasks with workforce – improve onboarding
- ❖ **Priority 4:** Determine the “best” observables for the early science case and what is needed for impactful measurements
- ❖ **Priority 5:** Develop a results validation scheme for talks/reviews/documentation

# Priority 1 (engagement) mini-tasks (~ 1 Month)

## Priority 3 – Improve onboarding

To increase engagement, we need analysis tutorials – decided these should be based on analysis technique rather than PWG. At the previous AC meeting, we decided the first tutorials should be:

- Electron ID - Tyler
- Hadron ID – Ralf (tutorial at the SIDIS working group)
- Jets - Rongrong/Olga
- Heavy Flavor - Rongrong
- Muon ID - EW/BSM group
- Using Far Forward Detectors – Kong/Alex
- One tutorial on backward (u-channel)  $\rho \rightarrow \pi + \pi$  from the physics benchmark push exists (Zack Sweager)

# Detector Requirements

Priorities 2 + 4

- Which physics studies are needed for the detector requirements?
  - Needed for pTDR/CD2 and beyond
- Action item: ACs and PWG conveners reach out to the DSCs to survey the need for new studies that cannot be reused from the YR
  - Help set priorities for the PWGs and S&C
  - Identify and then address any gaps in the software and simulations
- Create benchmarks, etc of YR plots in order to have updated and more realistic versions of key observables

# Meetings

- Previous meeting and notes: [Indico](#)
- Next Meeting – Tuesday Feb 18th at 830 am ET
  - [Indico](#)
  - Update on PWG status
  - All are welcome!