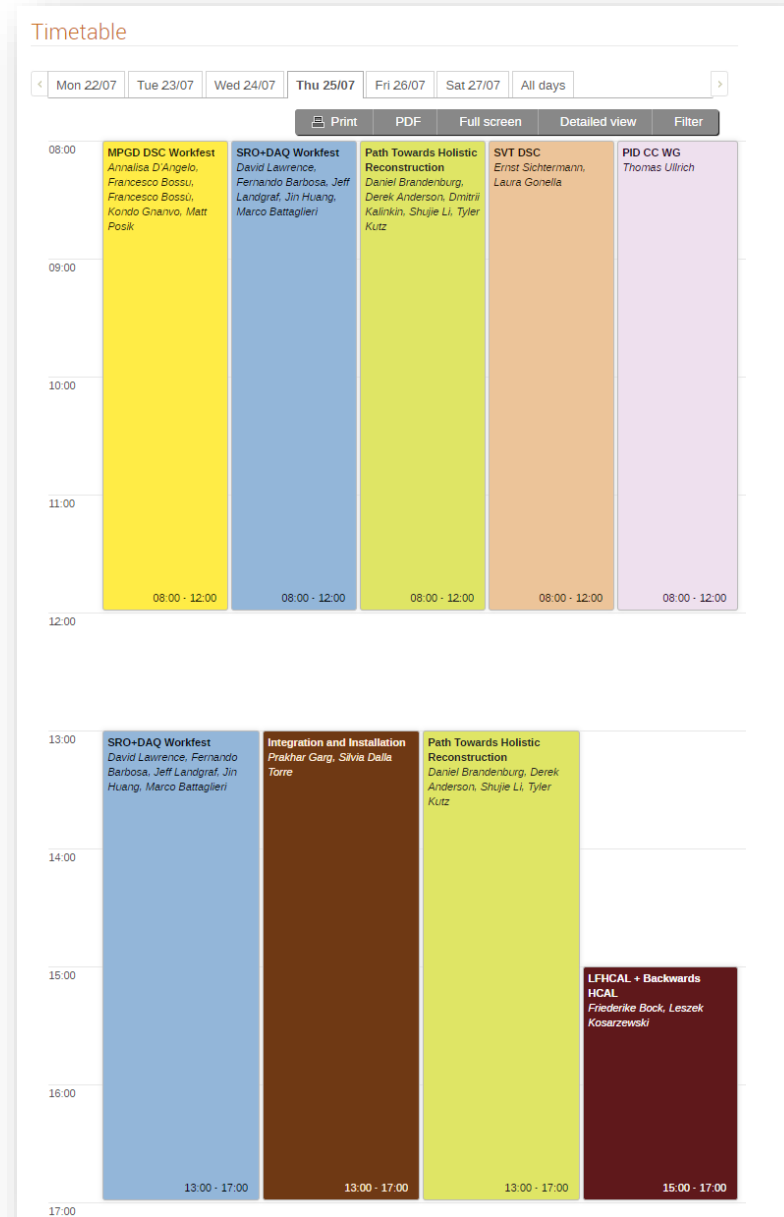


WG news

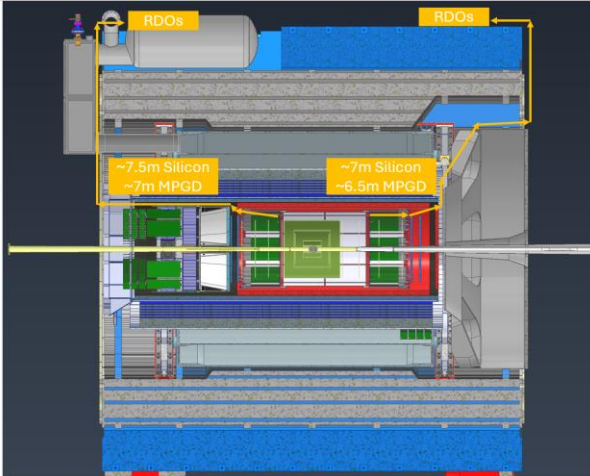
- ▶ Thanks for everyone participating the DAQ protocol discussion last week!
 - Jeff wrapping up the update on Overleaf. Contact Jeff if would like an early access
 - [New Mattermost channel for quick topical communication: "DAQ - GTU/DAM/RDO fiber protocol discussion"](#)
- ▶ Joint Electronics/DAQ/SRO Workfest at July collaboration meeting
 - Full day Thu July 25, Lehigh University in Bethlehem, Pennsylvania [[indico slot](#)]
 - Topics including prototyping, prototype support and detector needs, streaming computing workflow, existing software tools. Agenda filling next week.
 - Including time block with open discussion of subsystem need in prototyping E&DAQ support
 - Please join the workfest, in person or remote.



RDO placement, follow up discussion on MPGD

- ▶ Last discussion on June-13 meeting including [presentation from Roland](#)
- ▶ Action item: follow up with specific subsystem constraint and need
→ focus on MPGD today

Option 1-



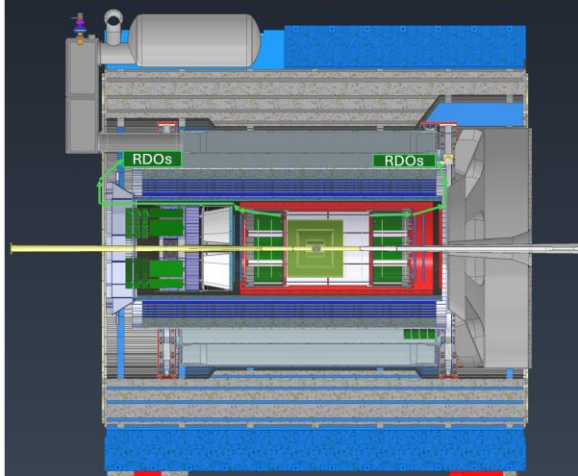
RDOs are placed on the outside of the barrel for both the lepton and hadron sides.

Hadron would be 6.5m +10% for contingency, so ~7.2m

Lepton would be 6.8m +10% for contingency, so ~7.5m

For all the numbers I list the distances are from the Inner MPGDs since I believe they are the worst case. If we need RDOs for the inner Silicon we must add to 0.5m the numbers.

Option 2-

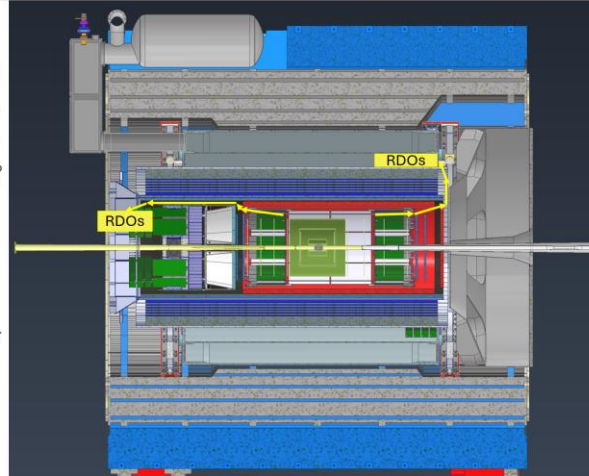


RDOs are placed on the outside of the barrel EMCAL for both the lepton and hadron sides. This option potentially creates issues for the Hadron side as getting access to the RDOs may be difficult. Also routing of the cables in this area will be a nightmare. On the Lepton side we have much more space since we are not limited by the dRICH.

Hadron would be 2.4m +10% for contingency, so ~2.7m

Lepton would be 4.2m +10% for contingency, so ~4.6m

Option 3-



RDOs are placed on the outside of the barrel EMCAL for hadron side and inside the DRIC on the lepton side. This option has the shortest distances, but I don't think it's possible. It has the same issues on the Hadron side but also additional issues on the lepton side. The EEEMCAL and pRICH will be slid into and out of the detector here, so anytime we need to service them or another detector inside of them we'll have to disconnect every RDO in this area and remove them. The cabling in this area would also be extremely messy.

Hadron would be 2.4m +10% for contingency, so ~2.7m

Lepton would be 2.5m +10% for contingency, so ~2.8m