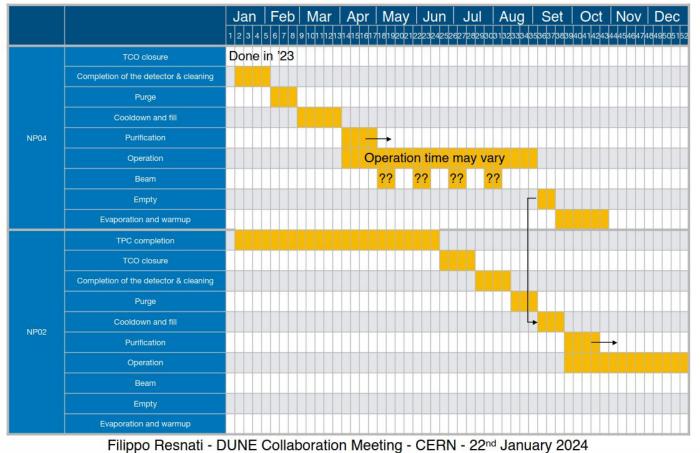
ProtoDUNEs PDS Sim/Reco updates

J. Soto



Updates

- ProtoDUNE-HD data-taking will start imminently.
- <u>Data-taking coordination meetings</u> on Thursdays at 17h00 CERN time.
- Call for an in-person data-taking training on February 12th-16th.





Questions

Concerning ProtoDUNE-HD data. There are some things we need to clarify:

- How many triggers we will have?
- How can we see the trigger type in the data?
- Do we have PDS only data? (for calibration, for taking data without drift fields, for example).



Updates

- New fhicls have been added to run PDS simulation:
 - **ProtoDUNE HD** are already on develop (Jake is generating new samples including light).
 - **ProtoDUNE VD** are still on a PR to be merged soon (Yoan will generate samples too). Two workflows:
 - Pure Ar simulation: 2 geant 4 stages/fhicls:
 - protodunevd_refactored_g4_stage1.fcl (common)
 - protodunevd_refactored_g4_stage2_pureAr.fcl
 - protodunevd_refactored_detsim_pureAr.fcl
 - Xenon-doped LAr: 3 geant4 stages/fhicls:
 - protodunevd_refactored_g4_stage1.fcl (common)
 - protodunevd_refactored_g4_stage2_Xe10ppm.fcl
 - protodunevd_refactored_g4_stage3_Xe10ppm.fcl
 - protodunevd_refactored_detsim_Xe10ppm.fcl
 - PMTs are not yet well simulated (all channels are treated like XArapucas).
- Photon libraries are the only available option for now. Computable graph will come soon for VD.
- A few cross-checks could be done. New hands are welcomed!



Agenda today

- ProtoDUNE-HD data analysis strategy (Laura).
- First steps accessing PDS data (José).

