

# Introduction

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ProtoDUNE DP analysis discussion

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Dear DUNE,

As discussed at the last collaboration phone call\*, we have made a few small changes this year to the Physics WG structure in addition to rotations of conveners. One of the changes was the addition of dual-phased-focused conveners to the existing ProtoDUNE Analysis WG.

We are pleased that Jaime Dawson and Slavic Galymov have agreed to join as these new conveners, working alongside the single-phase-focused conveners George Christodoulou and Tingjun Yang.

Many thanks to them and to all the Physics WG conveners for their continued efforts in making DUNE a success.

Best regards,  
Ryan and Elizabeth

DUNE collaboration call [slides](#)



# Info

- There is a single analysis working group for two ProtoDUNEs
  - Two dual-phase-focused conveners have been added recently
- This is to facilitate exchange for tools, information, and competences between people working on the prototypes
- ProtoDUNE DRA meetings on Wednesday are the forum to present results
  - Attended by large number of experts from ProtoDUNE SP community that can provide useful feedback / help
- Sufficient to inform conveners about presentation topic
  - Normally the requests should be accommodated unless the agenda is already too charged (often the meetings run for 2h), so on a rare occasion we may propose to bump the talk to next week
- We hope also help to cluster people in a few small subgroups who will work together on particular topic

# Wiki page

- We started a wiki page dedicated to ProtoDUNE DP activities on <https://wiki.dunescience.org/wiki/ProtoDUNE-DP>
- There is already quite a bit of useful information there
- People are encouraged to post information in order to document the work and help other especially new comers get informed
- Anyone with Fermilab service account should be able to login and edit the wiki
  - Note that getting / renewing (every year) Fermilab account takes a while, so please do it as soon as possible

# Goals for today discussion

- We would like to get a feedback from the people involved in the ProtoDUNE DP on what their interests are for the analysis
- Help to link people together who would like to work on overlapping topics

# DUNE far detector DP module

- We should also not forget about putting efforts on the developing simulation / analysis for the DUNE 10kton DP module
- While this is not be part of the ProtoDUNE DRA, there are several far detector working groups within DUNE that people can contribute
  - There is always lack of manpower to work on DP reco & analysis
- One should quantitatively demonstrate the performance of the DP module for beam neutrinos and low energy physics
- A good place to start getting informed on what has been done is DUNE TDR and in particular [the physics volume](#)
  - E.g., see what has been accomplished for the analysis with the simulation of the SP module