

ProtoDUNE-DP analysis

CEA group

7 février 2020



Irfu - CEA Saclay

The CEA group

People working on analysis

- Working directly on the analysis : Pierre
- Follow up and guidelines as supervisors : Sara and Edoardo
- Possibly working on the analysis at some point : Guillaume

Guillaume and Edoardo already working on current operations of PDDP and LEMs R&D.

Our interests

- Global understanding of the detector via analysis/calibration with available data.
- Specific focus on the evaluation of the LEMs gains on overall performances.

Ongoing and planned analysis

Ongoing analysis

^{39}Ar : need to understand the result and characterize the kind of events we are getting → possible simulation

Considered analysis

- ^{39}Ar selection on simulation.
- Looking at the tracks to get a better understanding of the detector : field distortions, gain, purity.

Tools

Using available online reconstruction produced with QScan and starting to use LArSoft.