Status of SPS 2023 file processing: Firenze farm

Folder structure

Main folder:/wizard/ceph/data/HERD/BeamTest/SPS2023/

Sub folder (excluding folder with log file):

- acquired_files → CALO+CT binary data
- analysed_files → first analysis step: pedestal and CN subtraction, conversion in ROOT CaloCube format, …
- ped_cor_analysed_files → a tree with base line shift correction is added
- **draw_charge_files**: add charge tagger information
- **common_format** → CALO-PD + CT information in common format.
- SCD → SCD data in common format.
- PD_SCD → SCD-PD aligned file starting from common_format and SCD.
- ped_cor_analysed_files → add to "analysed_files" a tree with base line shift correction.
- **ped_cor_draw_charge_files** → add CT info to "ped_cor_analysed_files"
- **ped_cor_calib_common_format** → CALO-PD + CT information in common format using base-line shift corrected data: PS calibration also applied.
- **ped_cor_calib_PD_SCD**: aligned "ped_cor_calib_common_format" and "SCD" data.

Processed file lists

Folder with lists:/wizard/ceph/data/HERD/BeamTest/SPS2023/

List names are very confusing, check this description:

- PD_good_run_list.csv → list of ion file included in "analysed_files", "draw_charge_files", "common_format".
- PD_available_run_list2.csv → list of electron file included in "analysed_files", "draw_charge_files", "common_format".
- **PD_SCD_available_run_list.csv → aligned CALO (w/o base line correction and calibration) and SCD.**
- PD_list_Calib_PedCor.csv → list of file included in "ped_cor_analysed_files", "ped_cor_draw_charge_files", "ped_cor_calib_common_format".
- **PD_SCD_list_Calib_PedCor.csv → aligned CALO (with base line correction and calibration) and SCD.**

Data check: run 301

Data after all the analysis steps: