

# Offline Data Quality Monitoring

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for the DQM team

08/02



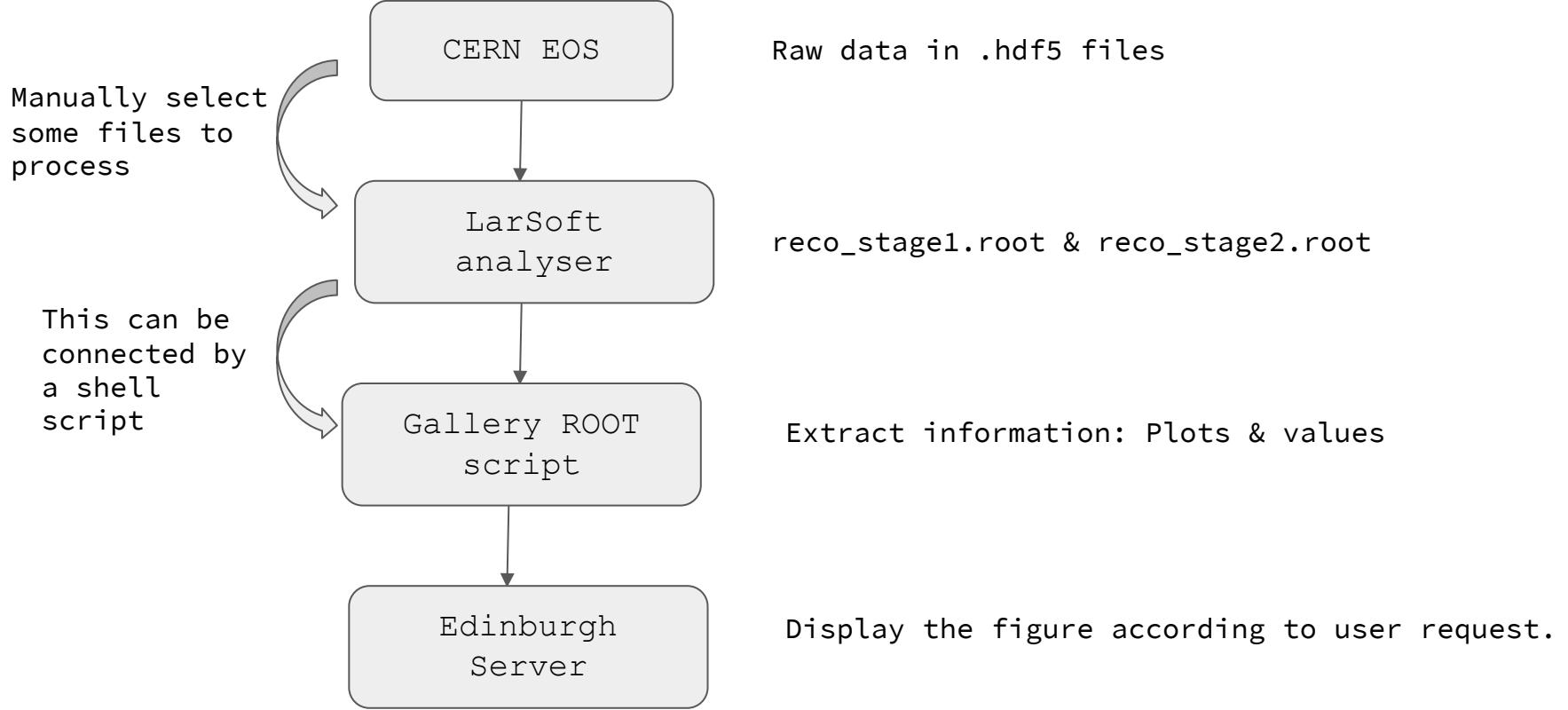
## Planning the updates on DUNE Offline Data Quality Monitoring

### Team:

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Xuyang Ning  
Robert Currie  
Wenlong Yuan

1. Framework is built for protoDUNE, so we can test it under data taking context;
2. Current User Interface: <https://dunedash.edi.scotgrid.ac.uk/>;
3. Plan to update the tool to be used in August 2024.

# Process for DQM



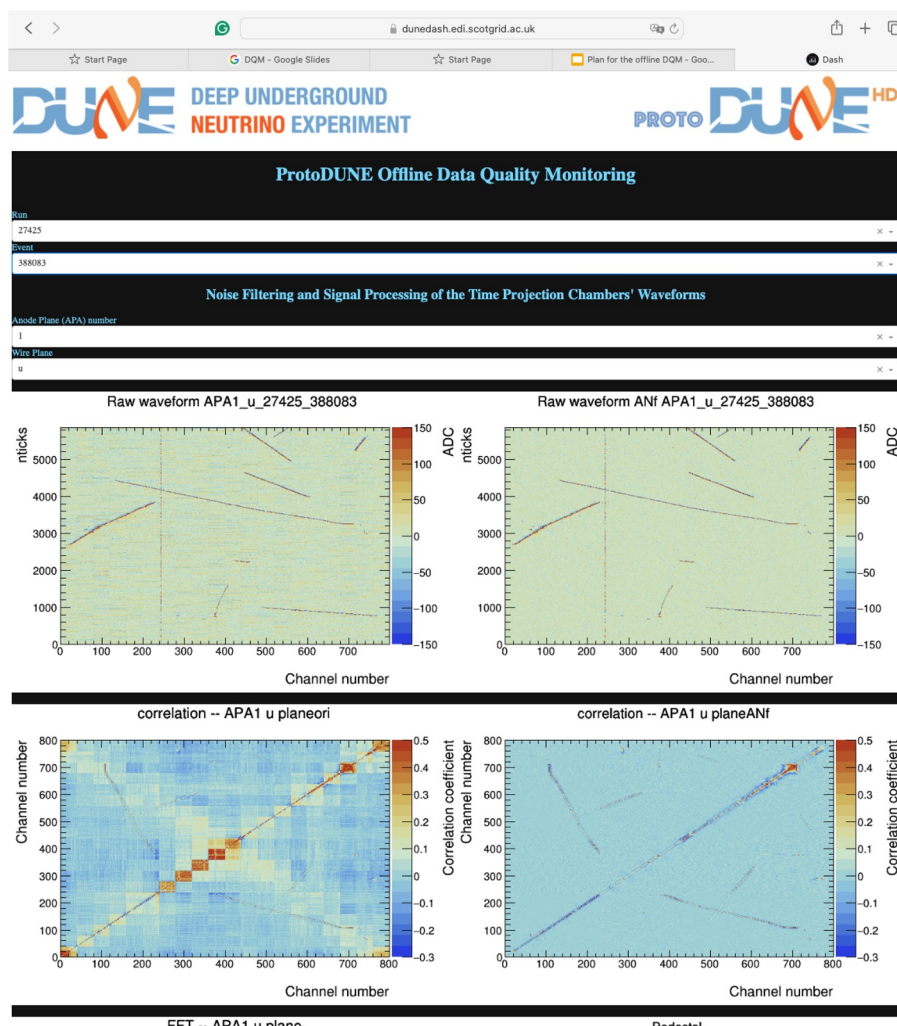
# Demo

- We have for now:(both before and after noise filter)
  - Waveforms;
  - Baseline;
  - RMS;
  - Noise spectrum vs frequency;
  - Correlation channel to channel;

[https://github.com/Ningclover/protodune\\_DQM\\_v\\_BNL](https://github.com/Ningclover/protodune_DQM_v_BNL)

User Interface at Edinburgh (from Gabriela) :

[https://dunedash.edi.scotgrid.ac.uk/;](https://dunedash.edi.scotgrid.ac.uk/)



# Next :

- More plots to be included:
  - Charge distribution after deconvolution (waveform ,etc.)
  - Hit finding information
  - Physics measurements:  $dE/dx$ ; electron lifetime...
  - Summary or history plots of different runs: noisy/bad channels, etc.
  - ...
- Improve the interface
  - Move to Django
  - ...