

Offline Data Quality Monitoring

Xuyang Ning, Wenqiang Gu

07/11

protoDUNE offline Data Quality Monitoring



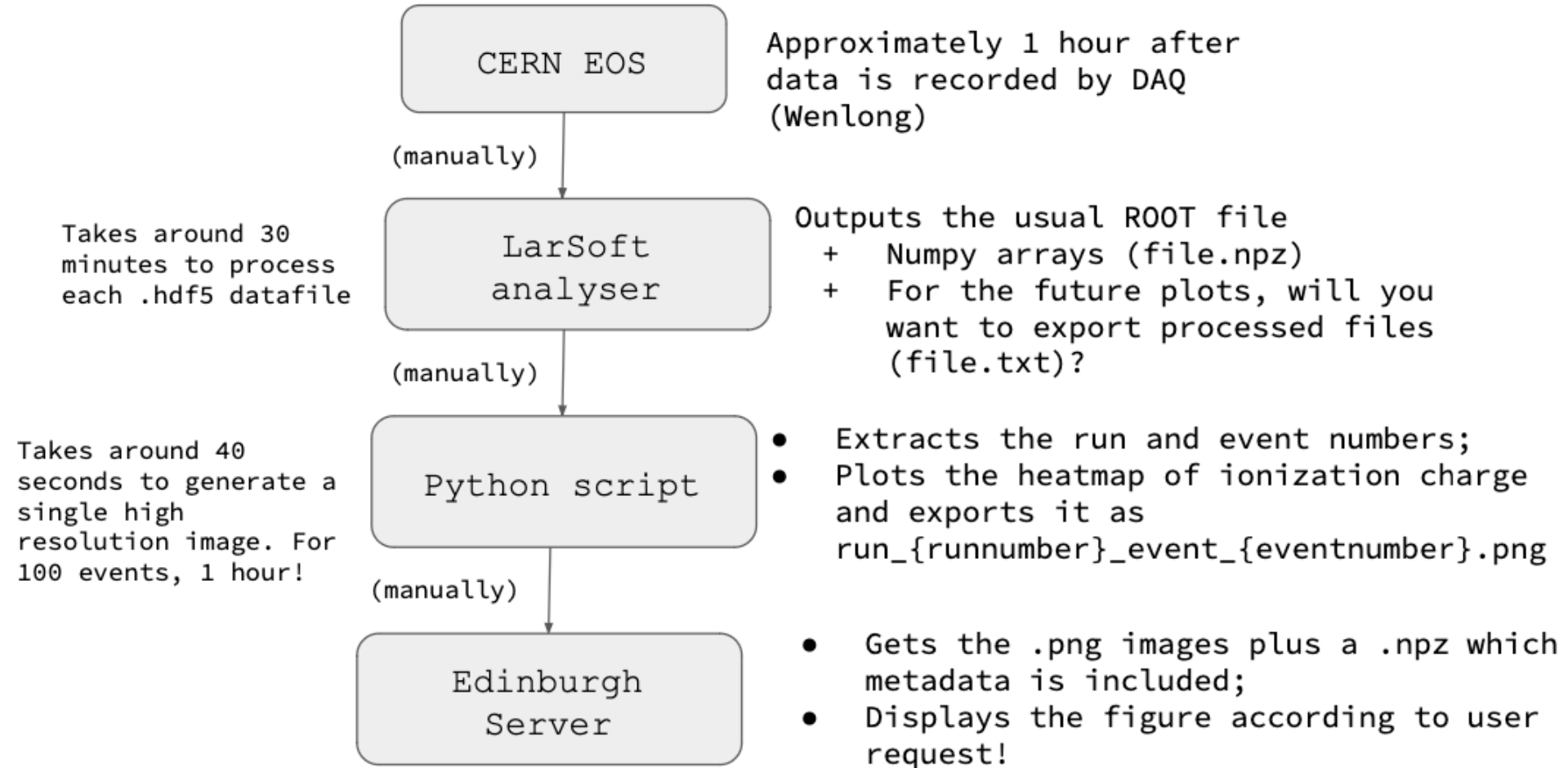
Planning the updates on DUNE Offline Data Quality Monitoring

Team:

Gabriela Vitti Stenico
Robert Currie
Wenlong Yuan
Xuyang Ning

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.

Path of the Data



From Gabriela

Number of Ionization Charge at Anode Planes

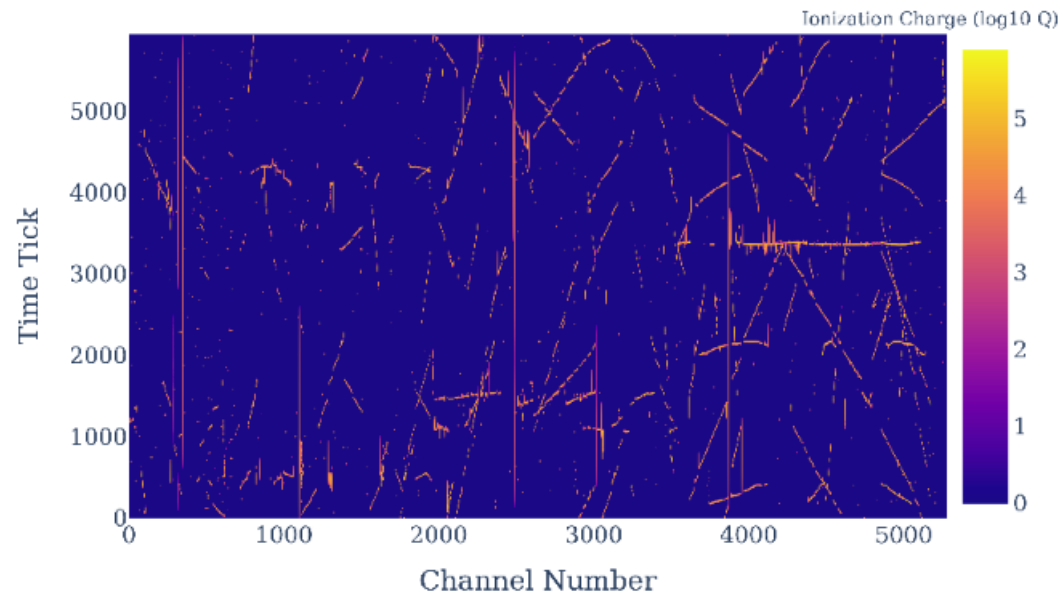
Run

26952

Event

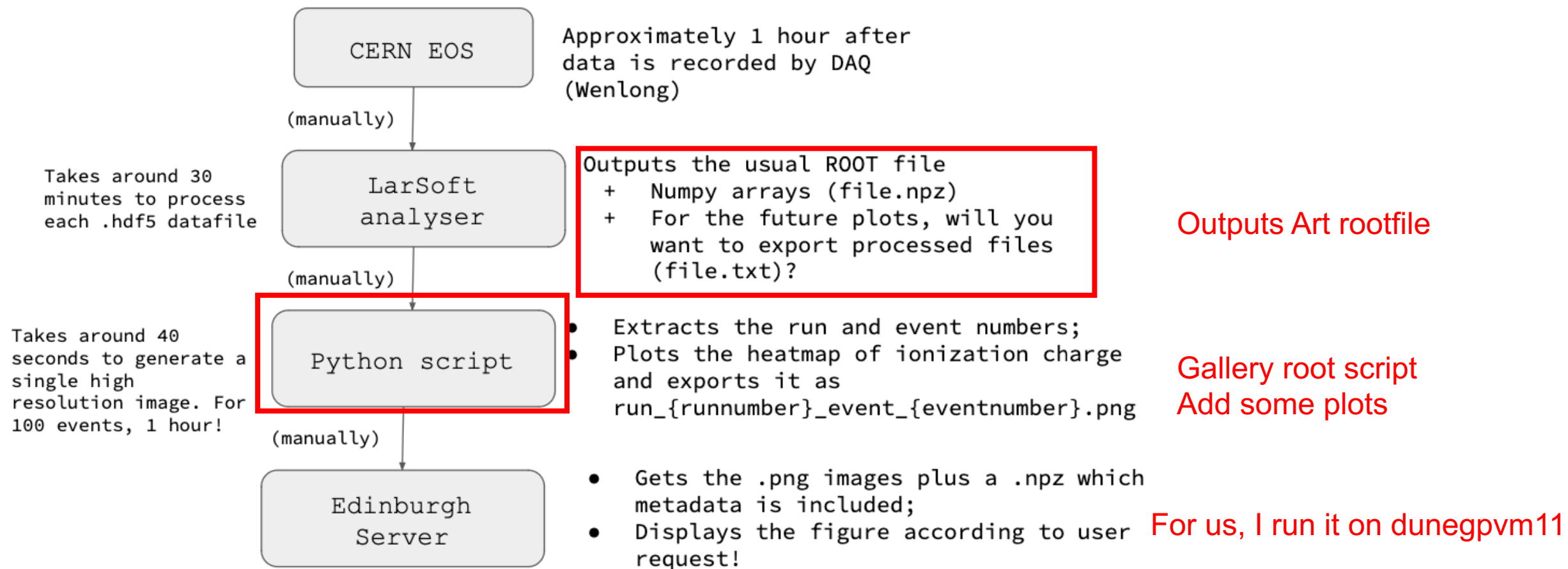
99

ProtoDUNE Anode Planes



Improve

Path of the Data



Demo

Plots available now:

- Baseline
- Waveform; [before&after noise filter](#)
- RMS; [before&after noise filter](#)
- Spectra vs frequency; [before&after noise filter](#)
- Channel-to-channel correlation; [before&after noise filter](#)

On your local terminal:

```
ssh -N -f -L localhost:8050:localhost:8050 <username>@dunegpvm11.fnal.gov
```

<http://127.0.0.1:8050/>

Next

- More plots:
 - Hit finding information
 - Summary plots of different runs
 - ...
- Improve the interface.
 - Move to Django
 - ...
- Reduce running time.
- Setup automatic process