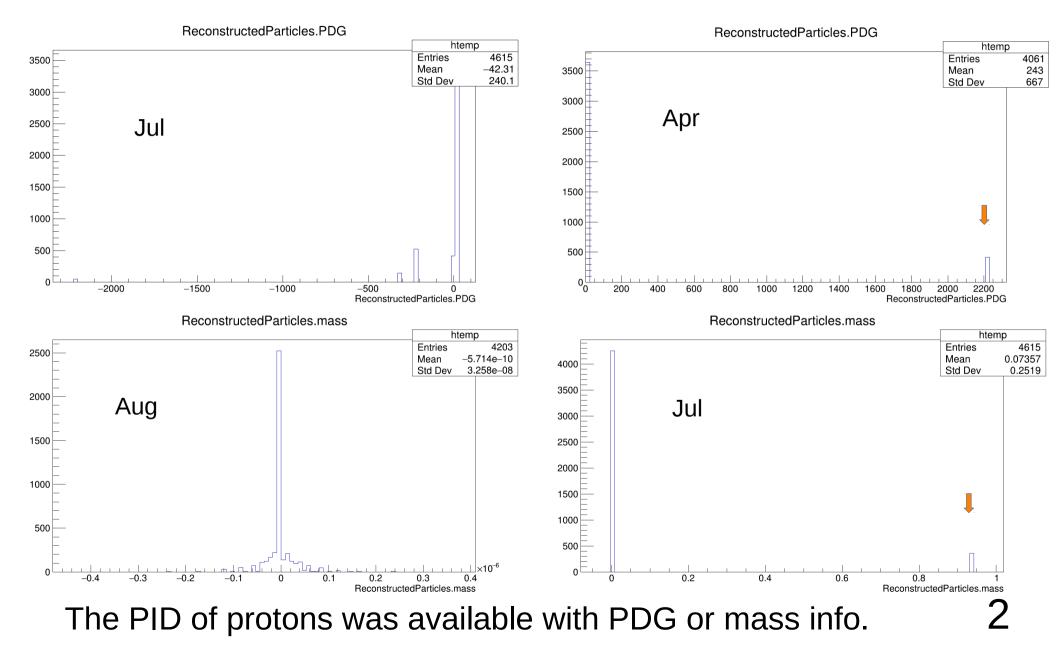
Update on DVMP

Hao Jiang 09-24-2024 University of Glasgow

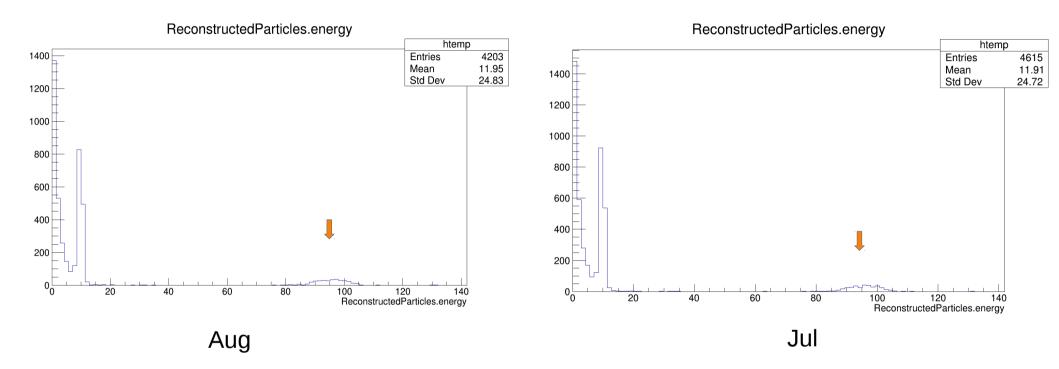
Files

- Apr 2024: S3/eictest/EPIC/RECO/24.04.0/epic_craterlake/EXCLUSIVE/DVMP/EpIC1.0.0-1.1
- Jul 2024: S3/eictest/EPIC/RECO/24.07.0/epic_craterlake/EXCLUSIVE/DVMP/EpIC1.0.0-1.1
- Aug 2024: work/eic2/EPIC/RECO/24.08.1/epic_craterlake/EXCLUSIVE/DVMP/EpIC1.0.0-1.1
- Generator files: github.com/eic/DVMPdataset
 EPIC generator (used with the Athena Proposal)
- Afterburned with ip6_hiacc_100x10 setting.
- 100k events have been generated.

Problems with recent PIDs

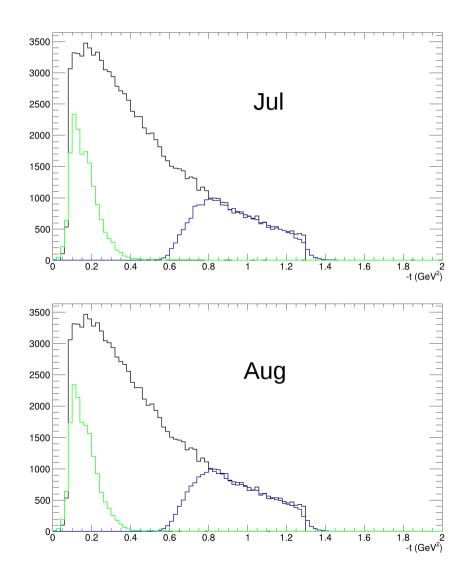


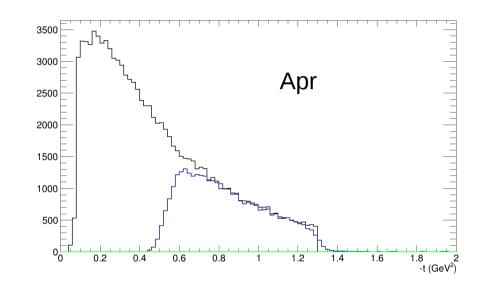
Temporary solution



Cuts on energy 60<E<120 GeV and having a positive charge.

Protons with different PIDs

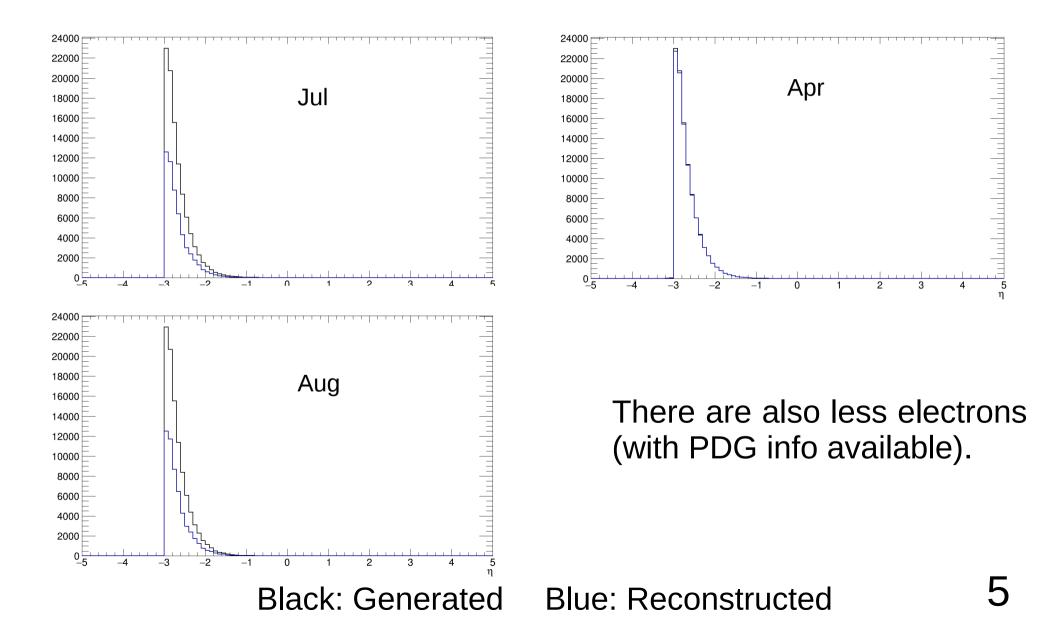




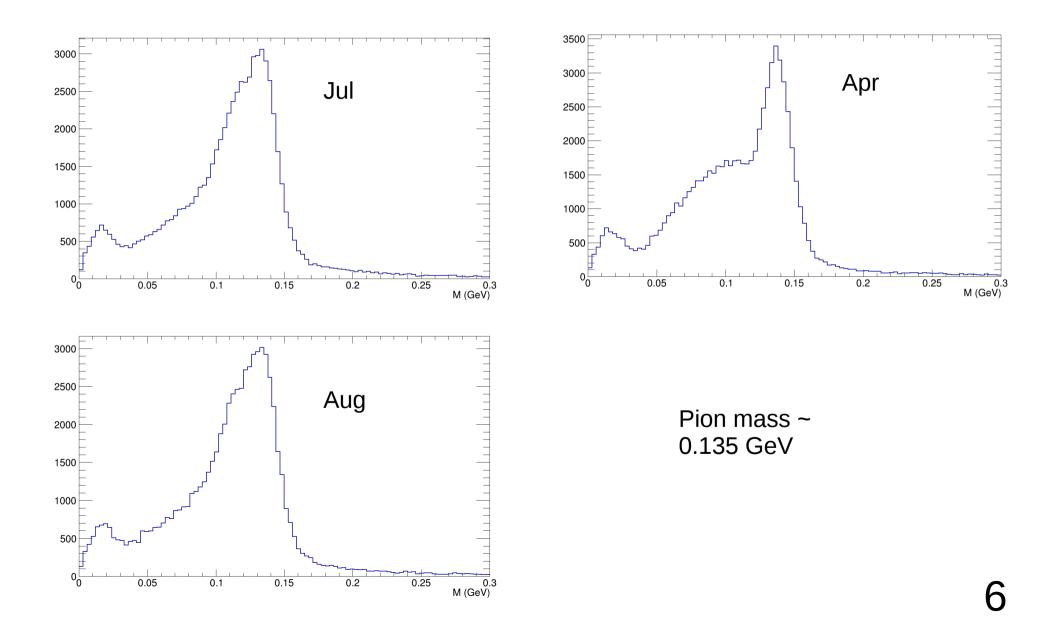
The cuts on energy bring roughly the same distribution as the previous one but less protons than the earlier one.

Black: Generated Blue: Reconstructed Green: RomanPot

Electrons η



Pion invariant



Others Aug

