Results of learning NPS analysis

Hao Huang

Carlos Munoz Camacho

2023.05.24



Definition of variables



- 1. Ndata_NPS_cal_fly_adcCounter
 - The size of variable "NPS_cal_fly_adcCounter"
 - "Ndata" denotes the size of that variable in that certain event and run
- 2. NPS_cal_fly_adcCounter"
 - The number of each PMT
- 3. NPS_cal_fly_adcSampPulseAmp
 - The amplitude of pulse extract by hcana
- 4. NPS_cal_fly_adcSampPulseInt
 - The integration of a pulse (area under the waveform)
- 5. NPS_cal_fly_adcSampPulseTime
 - The pulse time of a waveform
- 6. NPS_cal_fly_adcSampPed
 - The pedestal (noise) of a waveform
- 7. NPS.cal.fly.adcSampWaveForm
 - contains the waveform in all blocks

Plots of variables







2023/05/24

Hao Huang

Conclusion



- Learned the structures and definitions of several variables in NPS data
- Generated the plots of these variables

NEST STEP

- > Run through all events to summarize these variables
- Change and learn the pulse defining parameters in nps_geaom.param
- Read and learn the raw.evio coda file on cdaql3
- > Go into depth to learn more about the experimental settings