

Nevis Weekly Update

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071213



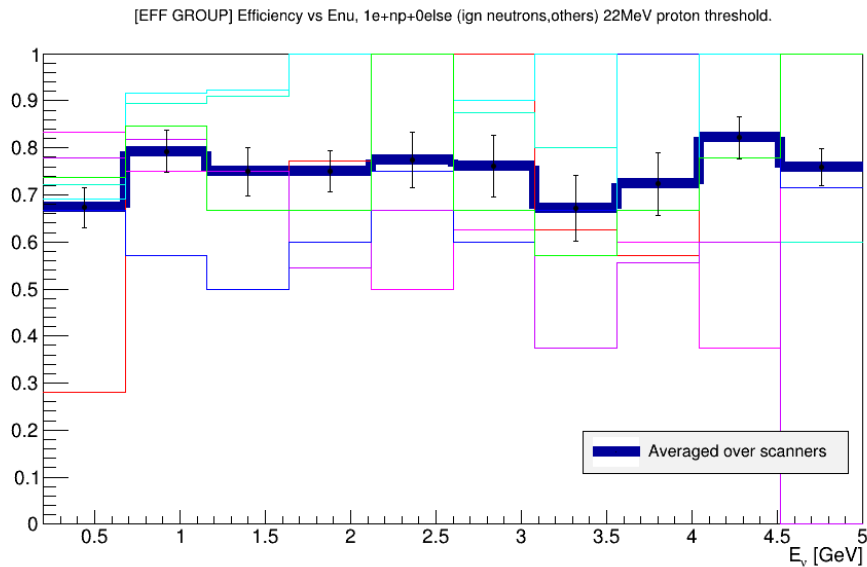
What I'm Doing

- Judging the innocence of people I've never met.
- Working on channel mapping @ MRT
 - Maps ASIC configuration channels to physical channels on the “vertical” motherboards on TPC (less straightforward than “horizontal” ones)
- Working on analyzing HandScan true-final-state data

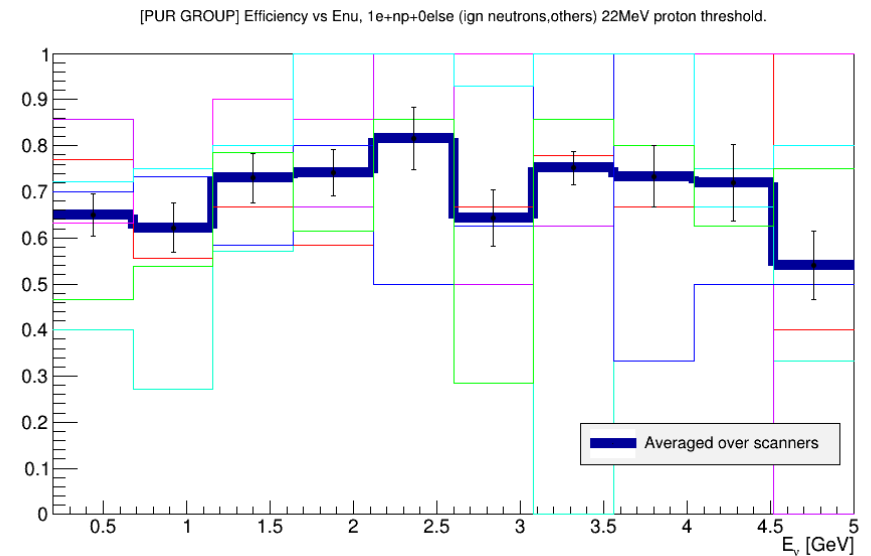
Hand Scanning Update

- Implemented code to study “purity” group

Efficiency to select $1e+np+0\mu\text{on}+0g+0\text{piplus}+0\text{piminus}+0\text{pizero}$ (ignore neutrons, “others”)



Efficiency group



Purity group

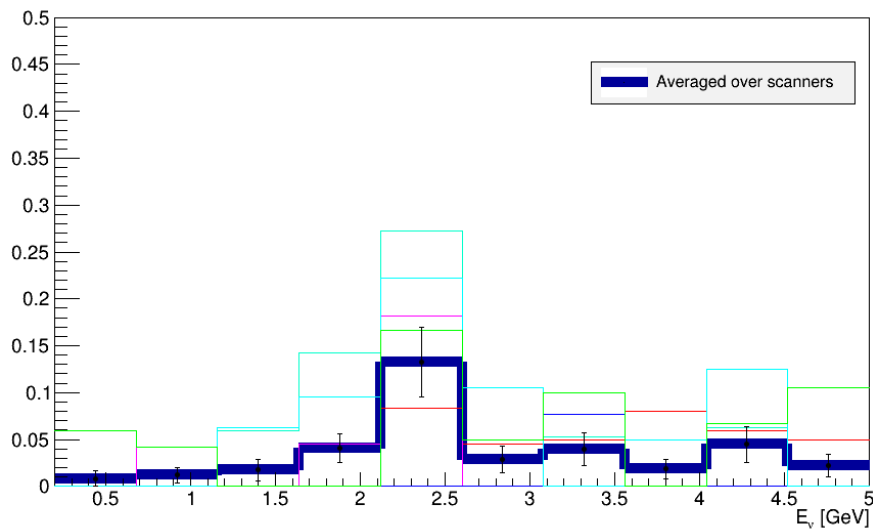
Define: “Efficiency” means among the set of all truthfully $1e+np+\text{etc}$ events, how well can users correctly identify these events.

Hand Scanning Update

- Implemented code to study “purity” group

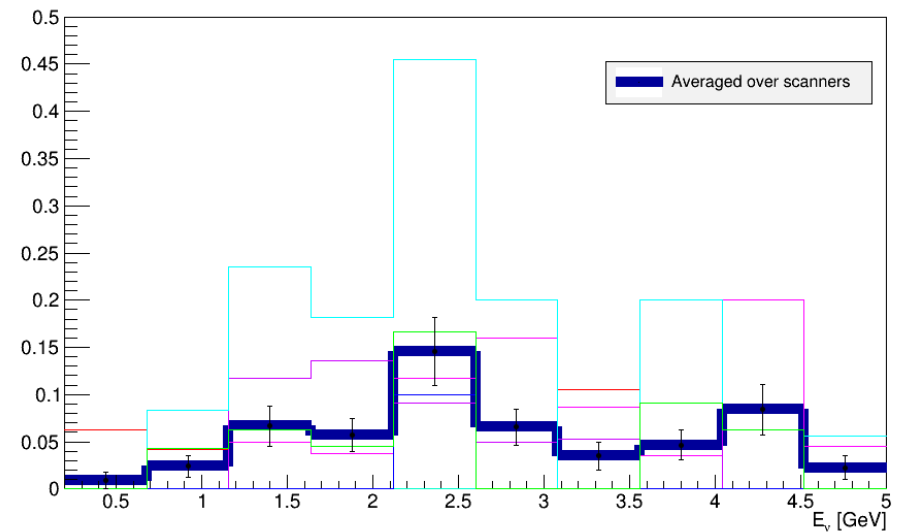
MID Efficiency for $1e+np+0\mu\text{on}+0g+0\text{piplus}+0\text{piminus}+0\text{pizero}$ (ignore neutrons, “others”)

[EFF GROUP] Efficiency vs E_{ν} , $1e+np+0\text{else}$ (ign neutrons,others) 22MeV proton threshold.



Efficiency group

[PUR GROUP] Efficiency vs E_{ν} , $1e+np+0\text{else}$ (ign neutrons,others) 22MeV proton threshold.

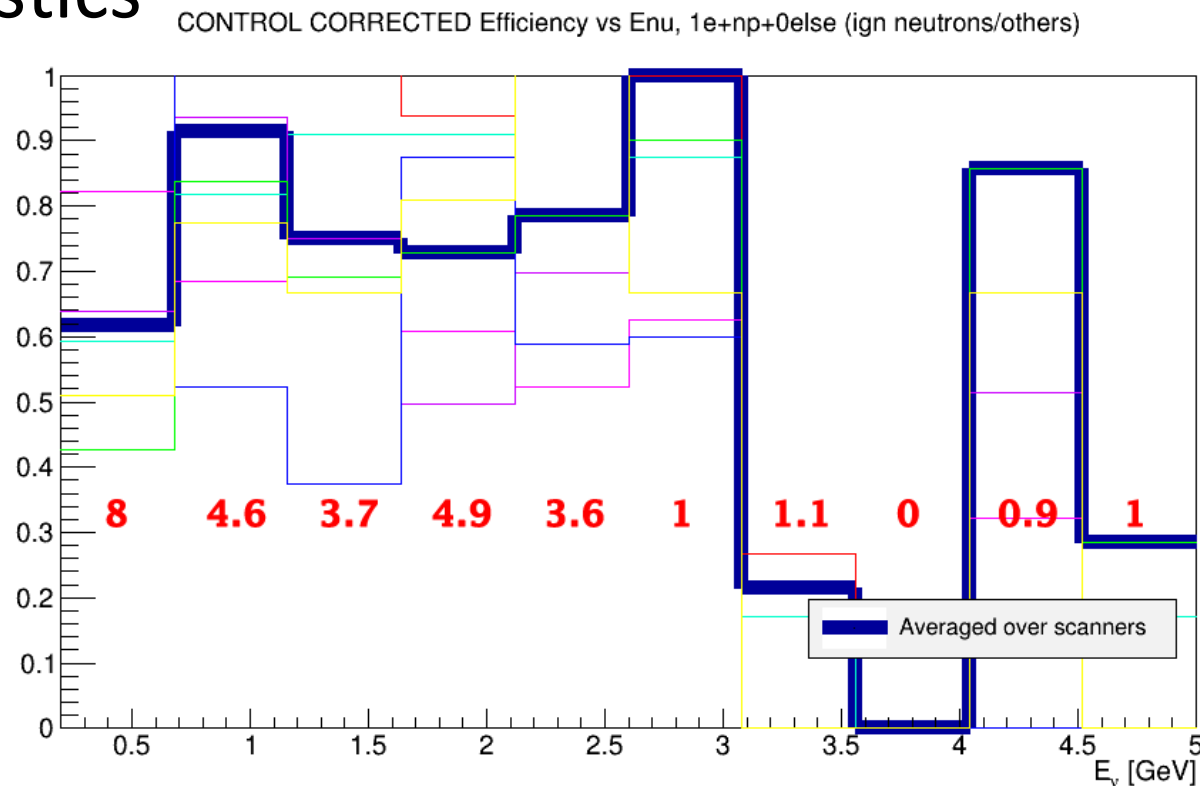


Purity group

Define: “MID Efficiency” means among the set of all truthfully **NON** $1e+np+\text{etc}$ events, how often do users identify these as $1e+np+\text{etc}$.

Hand Scanning Update

- Problem w/ control normalization: low statistics



Red overlaid numbers are average number of truthfully $1e+np+etc.$ events scanned per scanner in control sample

Quick Note on Weiner GUI

- Georgia: I never fully understood the GUI @ BO
- When I returned to study the mapping between GUI channels and locations on backplane, was unable to open GUI
- Problem involves Teppei running BO HV w/ same GUI server, Gennadiy won't answer my e-mails about running two GUIs at once, didn't want to risk messing w/ PMTs in BO on my own.