

Nevis Weekly Update

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072613

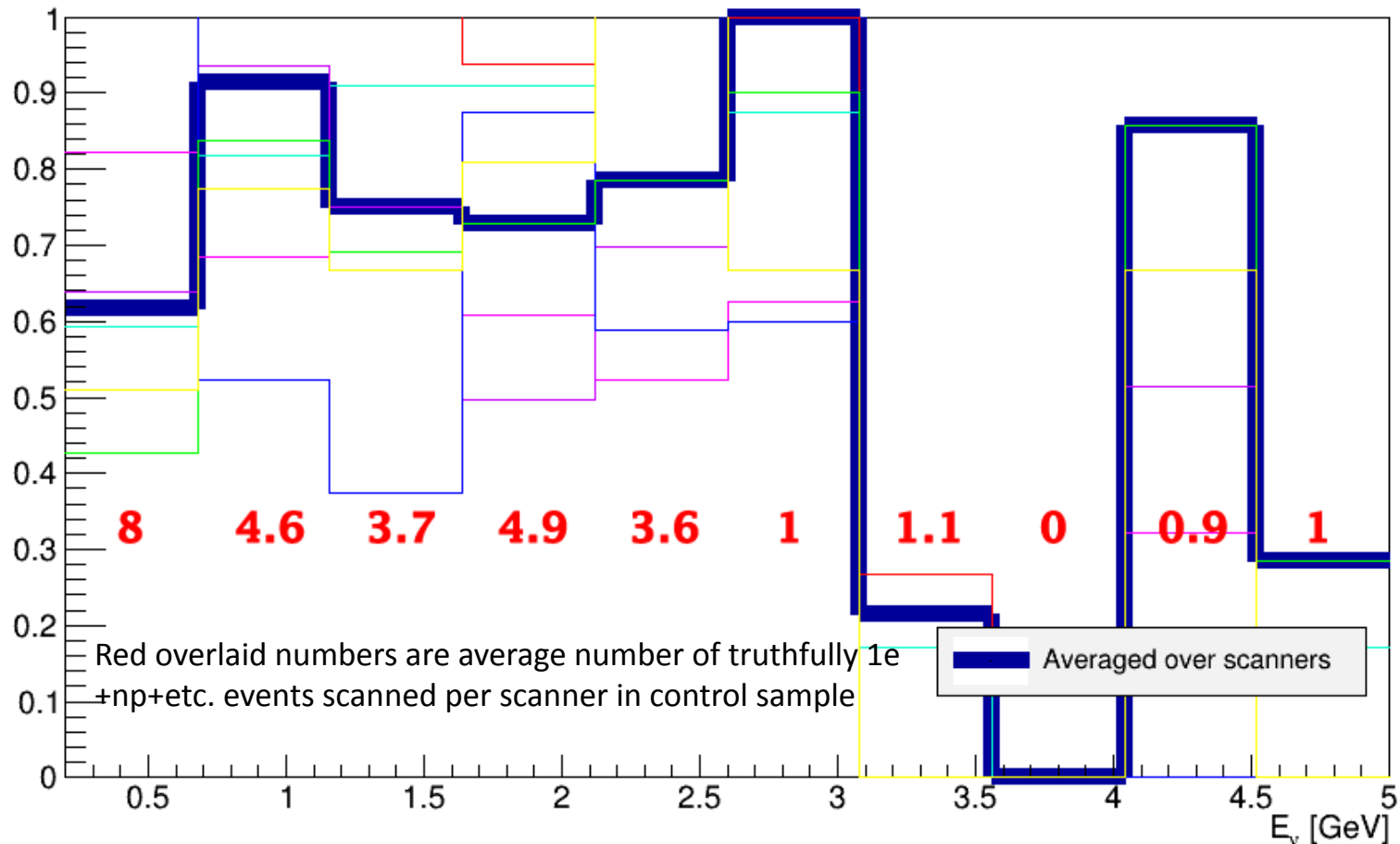


What I'm Doing

- Getting started working on uB run control system with Rashid
 - Involves importing Nova's RC stuff and converting it to a uB format (xml->fhicl, etc)
- Working on analyzing HandScan true-final-state data
 - **Latest obstacle: deciding how to handle control sample data analysis.**

Hand Scanning: Control Normalization?

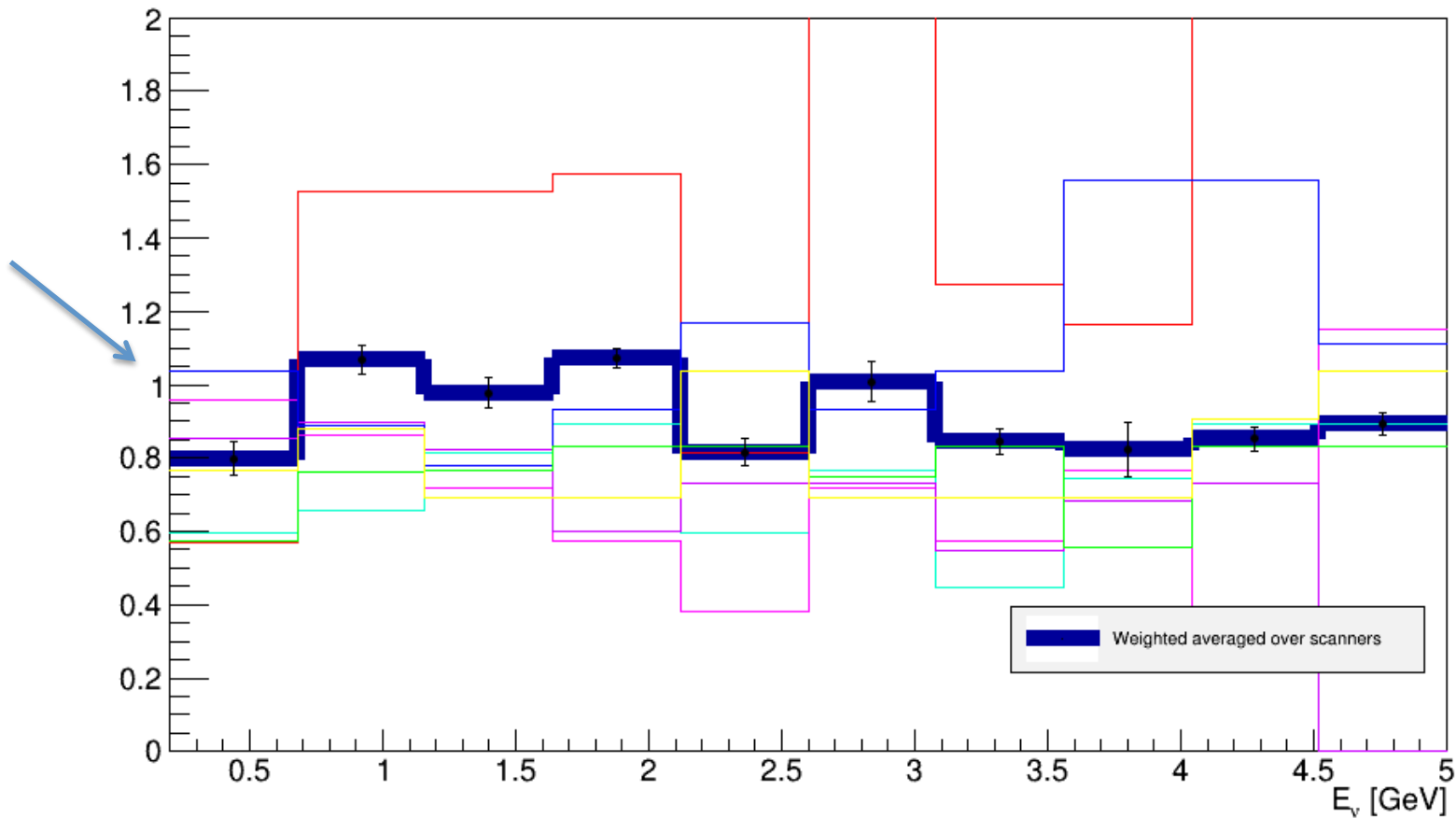
CONTROL CORRECTED Efficiency vs E_{ν} , $1e+np+0else$ (ign neutrons/others)



Control normalization, bin-by-bin correction. Clearly, too statistics limited, especially in higher bins.

Hand Scanning: Control Normalization?

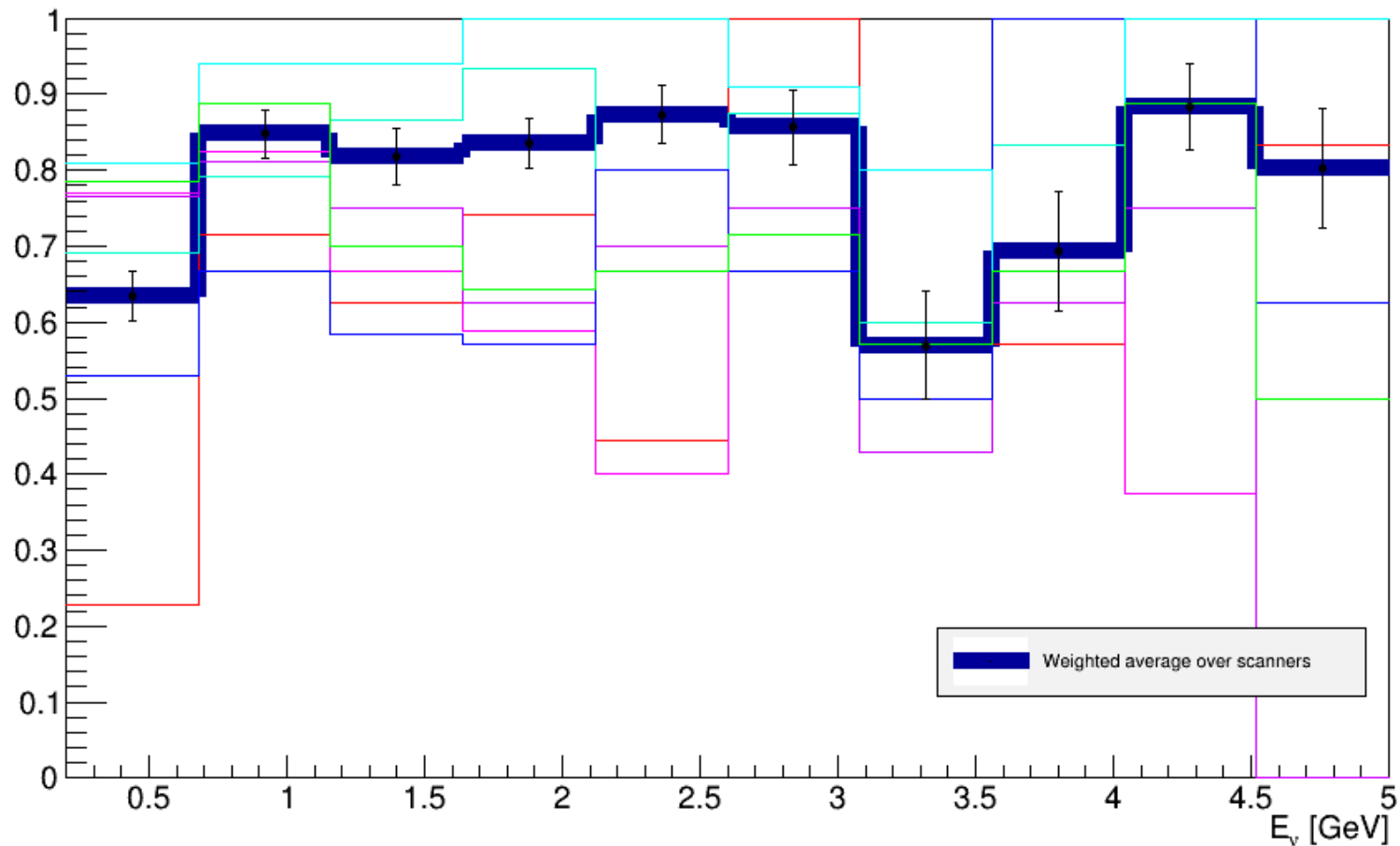
[EFF GROUP] CTRL-Normalized Efficiency, 1e+np+0mu+0pipmz+0g+0other



Control normalization – flat correction. End up with efficiencies $\gg 1$ for some scanners, skews average efficiency above 1.

Hand Scanning: Control Normalization?

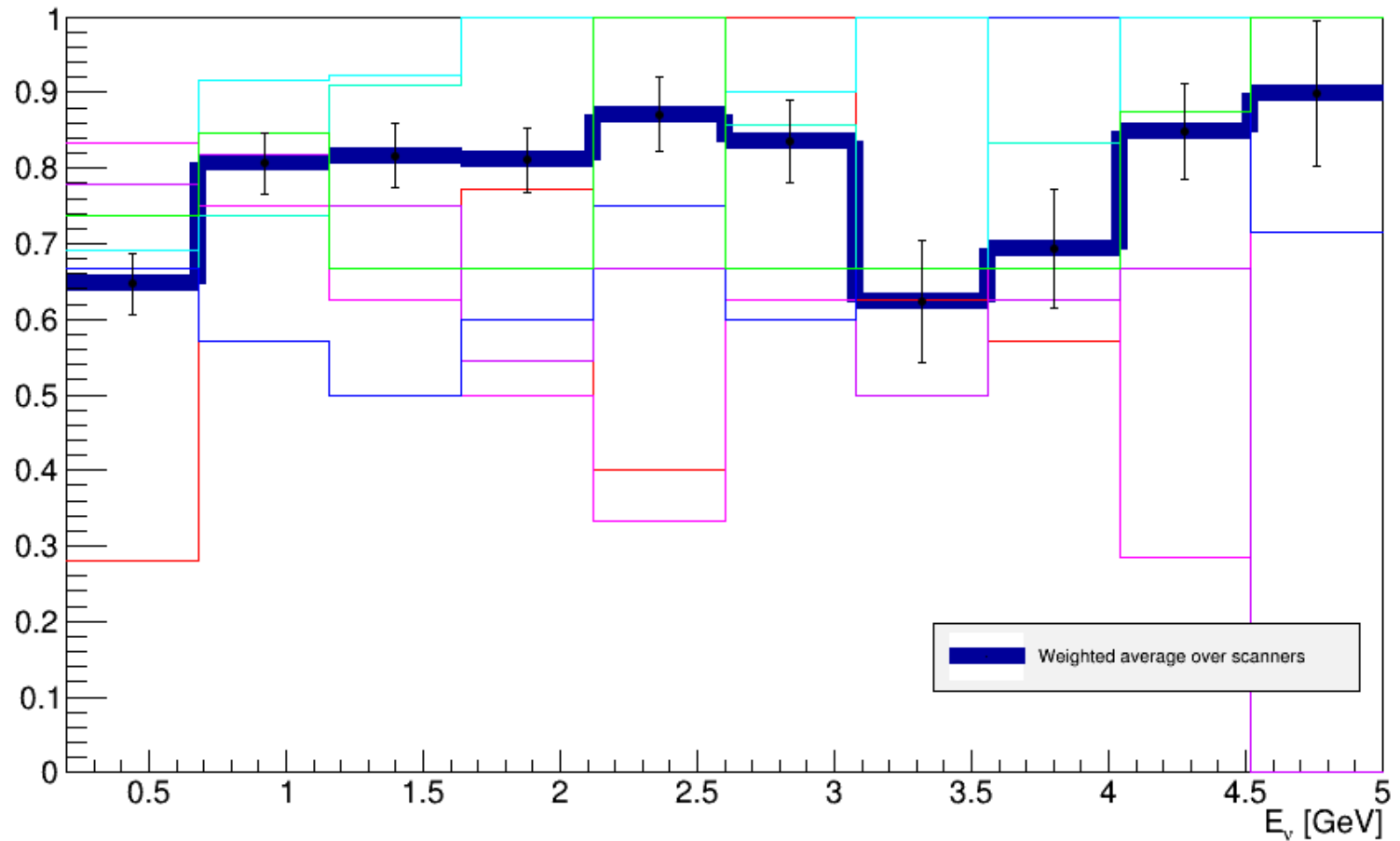
[EFF GROUP] Efficiency vs E_{ν} , 1e+np+0mu+0pipmz+0g+0other



Treating control sample as extra
experimental events

Hand Scanning: Control Normalization?

[EFF GROUP] Efficiency vs E_{ν} , $1e+np+0mu+0pipmz+0g+0other$



No control sample at all