Number of events finished?

Check out git!

https://git.km3net.de/tvaneeden/event_rates

Anything left to do???

Plots for Suzan & Ariane Aaaalmoooost finished!

Jobs currently @lyon for all available MC files (200 per situation)

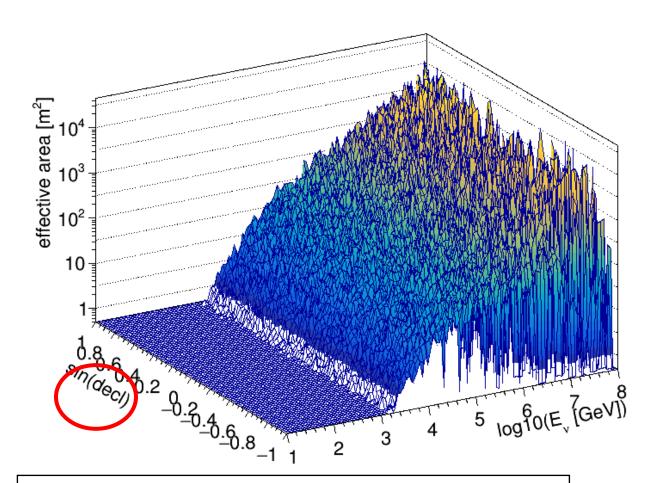
These plots with 11 files per situation

Q: How to suppress plotting on screen?

I did qsub, but there are commands in script like

TCanvas.Draw()... will this fail?

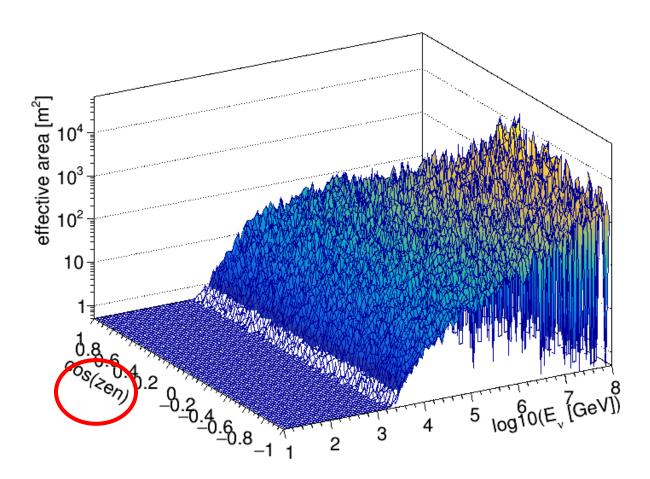
Effective area numuCC, all directions



Q: Make them for different cuts? This is just trigger level + requirement that best_reco_trk must exist => what else is 'normal'/preferred for analysis?

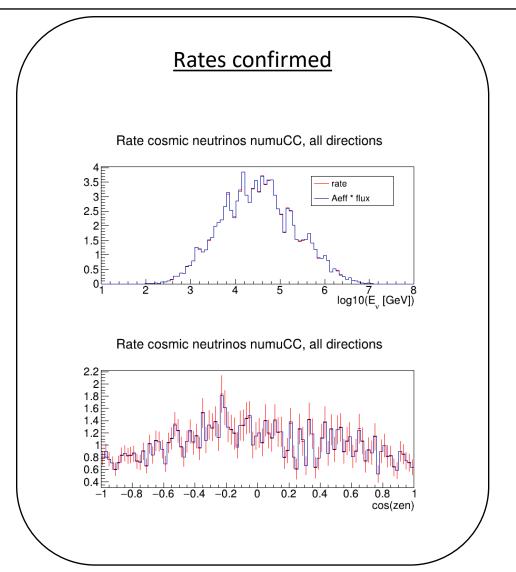
Rates confirmed Rate cosmic neutrinos numuCC, all directions log10(E_v [GeV]) Rate cosmic neutrinos numuCC, all directions



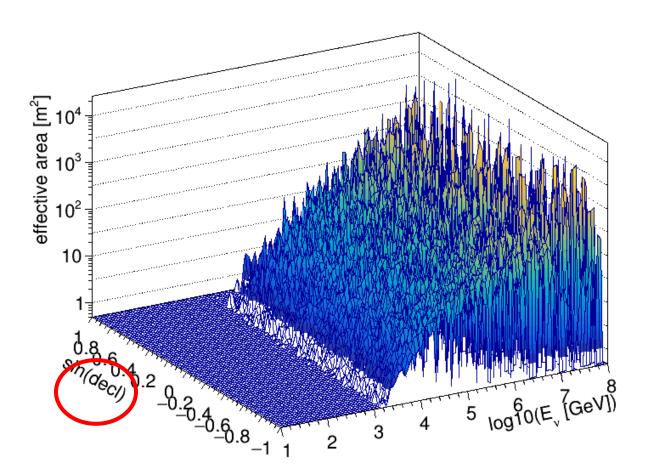


Note: I still want to confirm what the diviation is when applying function to this histogram to get sin(decl)

Note: rates of 2 methods confirmed. All numbers of all plots not yet checked with tables, but the ones that I checked are oké!



Effective area numuCO, upgoing

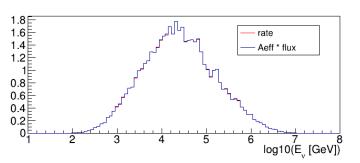


Note: I still want to confirm what the diviation is when applying function to this histogram to get sin(decl)

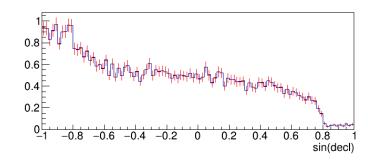
Note: upgoing rates approx ½ of all going

Rates confirmed

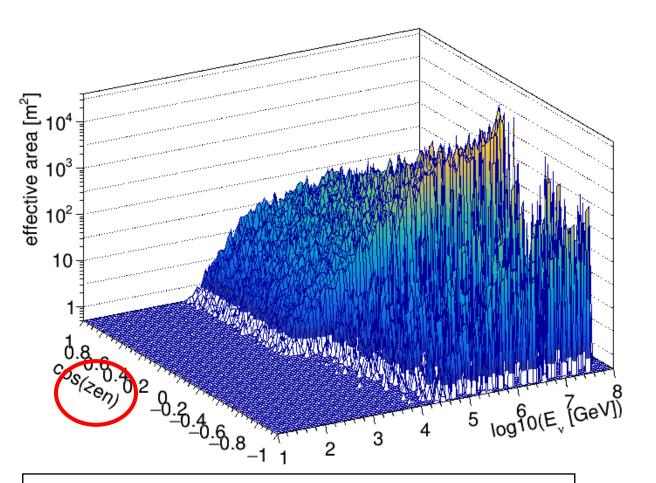
Rate cosmic neutrinos numuCC, upgoing



Rate cosmic neutrinos numuCC, upgoing



Effective area numuCC, upgoing

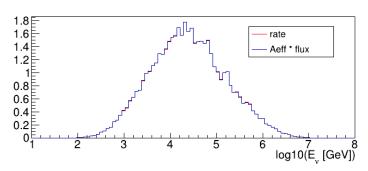


Q: Why do we cut on best_reco_track.dir, but plot Nu.dir??

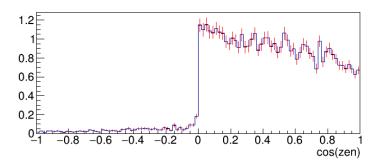
CUT: the reco track must be reconstructed as up-going (-> skip all down-going)
if direction == "up" and best_trk.dir.z < 0.: #
 continue</pre>

Rates confirmed

Rate cosmic neutrinos numuCC, upgoing



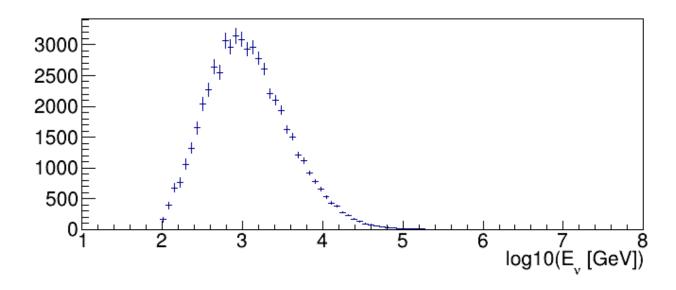
Rate cosmic neutrinos numuCC, upgoing



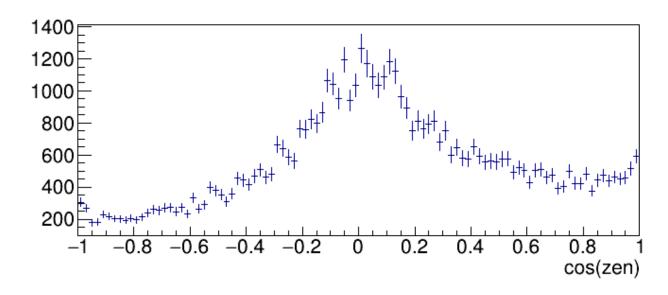
Questions: best_reco_trk.dir ⇔ Nu.dir

- When do you look from point of view of detector?
 best reco trk.dir
- When do you look from point of view source?
 → Nu.dir
- Is this a choise, or are there defaults? (for example: flux misunderstanding...)
 - EffArea: Nu
 - AngRes: Nu
 - Atm nu: Nu/brt?

Rate atmopheric neutrinos numuCC, all directions

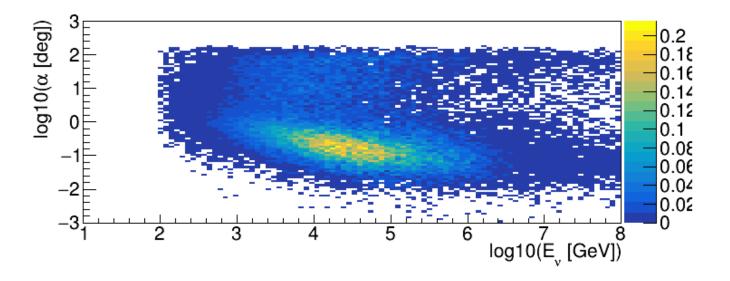


Rate atmopheric neutrinos numuCC, all directions

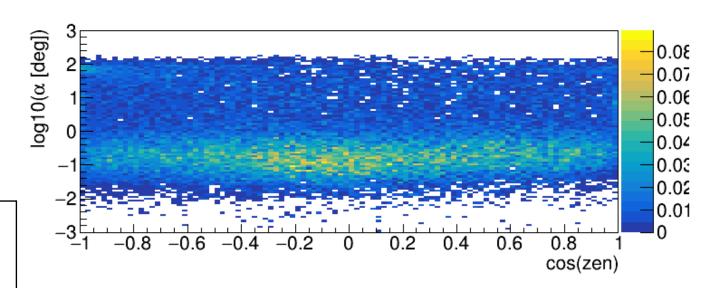


Think: Most atmospheric neutrinos horizontally????

Angular resolution numuCC, all directions zx projection



Angular resolution numuCC, all directions zy projection



Q: Fighting with colorbar & marigins didn't succeed.

Any suggestions?

I made my code pritty: aligned & commented

TH3/4H for Likelihood framework

 As soon as I have answers to my last questions, I can make this very easily from the script I currently have.